OKLAHOMA

A SUMMARY OF ACTIVITIES OF THE U.S. GEOLOGICAL SURVEY WATER RESOURCES DIVISION FOR

1985

Compiled by the Oklahoma District Staff

U.S. GEOLOGICAL SURVEY
Open-File Report 85-328

U.S. DEPARTMENT OF THE INTERIOR
March 3, 1849

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1985

UNITED STATES DEPARTMENT OF THE INTERIOR
DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY
Dallas L. Peck, Director

For additional information write to:

District Chief
U.S. Geological Survey
Water Resources Division
Room 621, Old Post Office Building
215 Dean A. McGee Avenue
Oklahoma City, Oklahoma 73102

Telephone: (405) 231-4256

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A MESSAGE FROM THE DISTRICT CHIEF

For approximately 50 years, the U.S. Geological Survey (USGS), Water Resources Division, has cooperated with the State of Oklahoma in collecting and interpreting water-resources data for the benefit of the citizens of Oklahoma and the nation. It has been my pleasure to have spent the past twenty years as a member of the USGS team in my home State of Oklahoma. Through many years a close relation has been developed with State, local and other Federal agencies to provide them with accurate and meaningful water information. I am proud of our contribution. As Oklahoma progresses, the demand for water-resources data will increase and the USGS will continue to play an important role in supplying these water-data needs.

Since the publication of our last Activities Report in 1983, a number of projects have been completed and new investigations started. Ground-water studies have been completed on the High Plains (Ogallala) aquifer and a series of publications prepared. Studies to provide hydrologic information on the coal field areas of Oklahoma, water use, and droughts are continuing.

As we enter 1985, projects and data collection programs will be concentrated on important water problems in Oklahoma, such as the study of the hydrology of the abandoned zinc mines in northeastern Oklahoma and the impact water in the mines may have on the freshwater Roubidoux aquifer underlying the mines and on Tar Creek. Other important studies are reevaluations of the ground-water resources in the Rush Springs Sandstone in western Oklahoma and the Cimarron Terrace deposits in the northwestern part of the State.

This summary will be of help to those interested in the work of the USGS and its cooperating agencies. It provides a ready reference to U.S. Geological Survey publications describing the results of previous studies in Oklahoma, the present studies in the State, and the location of the many sites where water information is being collected. To meet our State's needs for up-to-date reliable information on the water resources, the USGS will be proud to provide its know-how and expertise to meet this challenge.

James H. Irwin
District Chief
U.S. Geological Survey
Oklahoma City, Oklahoma

U.S. GEOLOGICAL SURVEY ORIGIN

The U.S. Geological Survey was established by an act of Congress on March 3, 1879, to provide a permanent Federal agency to conduct the systematic and scientific "classification of the public lands, and examination of the geological structure, mineral resources, and products of national domain." An integral part of that original mission includes publishing and disseminating the earth-science information needed to understand, to plan the use of, and to manage the Nation's energy, land, mineral, and water resources.

Since 1879, the research and fact-finding role of the USGS has grown and been modified to meet the changing needs of the Nation it serves. As part of that evolution, the USGS has become the Federal Government's largest earth-science research agency, the Nation's largest civilian map-making agency, the primary source of data on the Nation's surface- and ground-water resources, and the employer of the largest number of professional earth scientists. Today's programs serve a diversity of needs and users. Programs include:

- Conducting detailed assessments of the energy and mineral potential of the Nation's land and offshore areas.
- Investigating and issuing warnings of earthquakes, volcanic eruptions, landslides, and other geologic and hydrologic hazards.
- Conducting research on the geologic structure of the Nation.
- Studying the geologic features, structure, processes, and history of the other planets of our solar system.
- Conducting topographic surveys of the Nation and preparing topographic and thematic maps and related cartographic products.
- Developing and producing digital cartographic data bases and products.
- Collecting data on a routine basis to determine the quantity, quality, and use of surface and ground water.
- Conducting water-resource appraisals in order to describe the consequences of alternative plans for developing land and water resources.
- Conducting research in hydraulics and hydrology, and coordinating all Federal water data acquisition.
- Using remotely sensed data to develop new cartographic, geologic, and hydrologic research techniques for natural resources planning and management.
- Providing earth-science information through an extensive publications program and a network of public access points.

Along with its continuing commitment to meet the growing and changing earth-science needs of the Nation, the USGS remains dedicated to its original mission to collect, analyze, interpret, publish, and disseminate information about the natural resources of the Nation--providing "Earth Science in the Public Service."

WATER RESOURCES DIVISION

BASIC MISSION AND PROGRAM

The mission of the Water Resources Division is to provide the hydrologic information and understanding needed for the optimum utilization and management of the Nation's water resources for the overall benefit of the people of the United States.

This is accomplished, in large part, through cooperation with other Federal and non-Federal agencies, by:

- Collecting, on a systematic basis, data needed for the continuing determination and evaluation of the quantity, quality, and use of the Nation's water resources.

- Conducting analytical and interpretive water-resource appraisals describing the occurrence, availability, and the physical, chemical, and biological characteristics of surface and ground water.

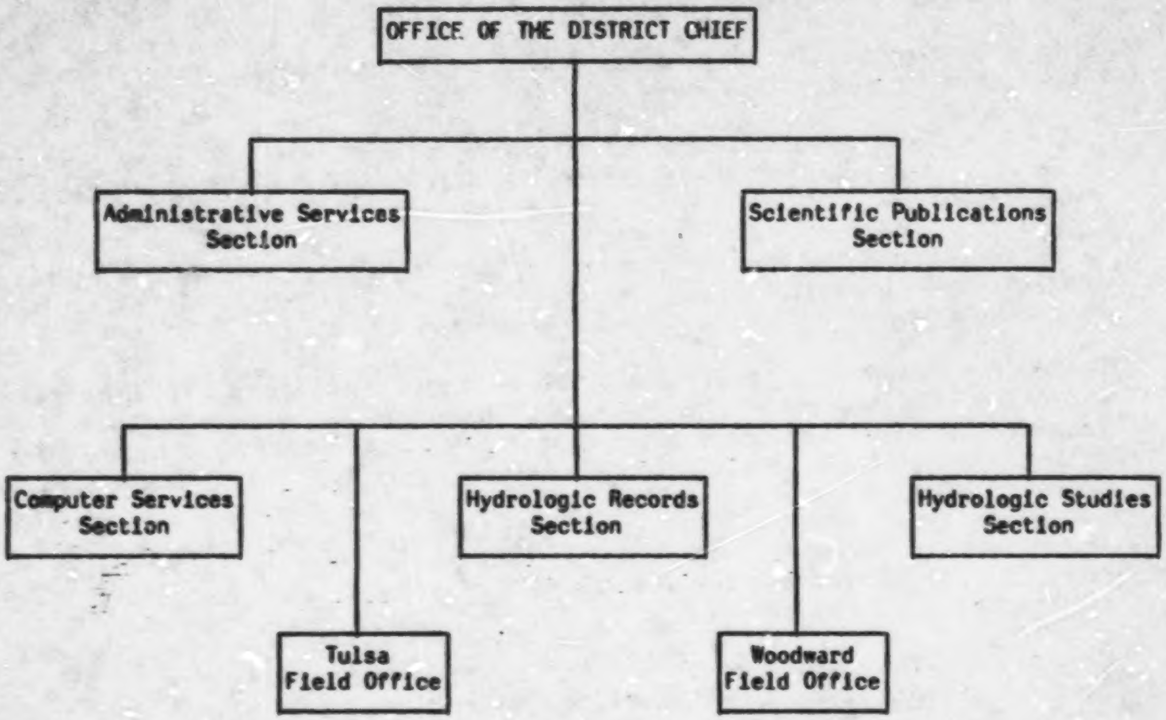
- Conducting supportive basic and problem-oriented research in hydraulics, hydrology, and related fields of science to improve the scientific basis for investigations and measurement techniques and to understand hydrologic systems sufficiently well to quantitatively predict their response to stress, either natural or manmade.

- Disseminating the water data and the results of these investigations and research through reports, maps, computerized information services, and other forms of public releases.

- Coordinating the activities of Federal agencies in the acquision of water data for streams, lakes, reservoirs, estuaries, and ground waters.

- Providing scientific and technical assistance in hydrologic fields to other Federal, State, and local agencies, to licensees of the Federal Power Commission, and to international agencies on behalf of the Department of State.

OKLAHOMA DISTRICT ORGANIZATION CHART


OFFICE OF THE DISTRICT CHIEF
Administrative Services Section
Scientific Publications Section
Computer Services Section
Hydrologic Records Section
Hydrologic Studies Section
Tulsa Field Office
Woodward Field Office

OKLAHOMA DISTRICT OFFICE ADDRESSES

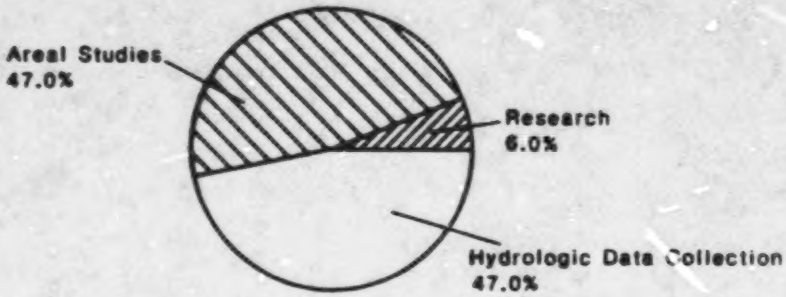
District Office
Chief: James H. Irwin
(405) 231-4256
U.S. Geological Survey
Water Resources Division
Room 621
215 Dean A. McGee Avenue
Oklahoma City, Oklahoma 73102

Tulsa Field Office
Technician in charge: Derryl K. White
(918) 627-6873
U.S. Geological Survey
Water Resources Division
P.O. Box 45044
Tulsa, Oklahoma 74145

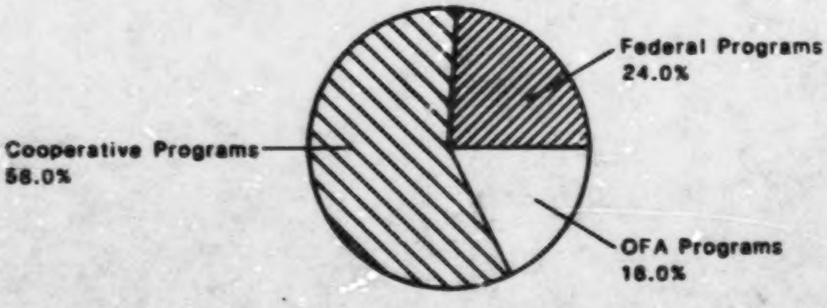
Woodward Field Office
Technician in charge: Dale L. Boyle
(405) 256-7636
U.S. Geological Survey
Water Resources Division
P.O. Box 623
Woodward, Oklahoma 73801

TYPES OF INVESTIGATIONS AND SOURCES OF FUNDING FOR OKLAHOMA IN 1984

Three broad categories of investigations are conducted in Oklahoma to obtain the information needed by managers and planners for the solution or alleviation of water problems in the State. These three categories are: (1) areal studies involving the appraisal of ground-water resources and river basins, (2) hydrologic data collection involving the statewide surface-water, ground-water, and quality-of-water monitoring programs, and (3) research involving special studies that improve our understanding of hydrology. The diagram below shows these investigations expressed as a percentage of the District's total work for fiscal year 1984.



The investigations shown in the above diagram are supported by services and funds from three basic programs: (1) cooperative programs which are supported by 50 percent of the funds being provided by State and Local agencies and the remaining 50 percent by Federal funds (2) Federal programs which are supported by funds appropriated directly to the U.S. Geological Survey, and (3) other Federal agency programs (OFA) which are supported entirely by other Federal agencies. In fiscal year 1984 the financial support for these three programs in Oklahoma was about $2,340,000, which was distributed as follows:



LIST OF COOPERATORS

The following table lists State, local, and other Federal agencies who supported water-resources investigations in cooperation with the U.S. Geological Survey during fiscal year 1984:

State Agencies

Oklahoma Conservation Commission
Oklahoma Department of Transportation
Oklahoma Geological Survey
Oklahoma State Health Department
Oklahoma Water Resources Board

Local Agencies

City of Ada
City of Altus
City of Claremore
City of Lawton
City of Oklahoma City
City of Sapulpa
City of Tulsa
Central Oklahoma Master Conservancy District
Ft. Cobb Reservoir Master Conservancy District
Foss Reservoir Master Conservancy District
Grand River Dam Authority
Lugert-Altus Irrigation District
Mountain Park Master Conservancy District
Oklahoma Gas and Electric Company

Federal Agencies

Federal Emergency Management Agency
U.S. Army Corps of Engineers
U.S. Bureau of Reclamation
U.S. Bureau of Land Management

WATER CONDITIONS IN OKLAHOMA

Oklahoma's surface and ground waters range widely in their availability and quality across the State. The general characteristics of these water resources are described in a series of reconnaissance studies published as hydrologic atlases. (See list of references.) Three of the atlases describe water conditions in each county in the Panhandle of the State and the other nine atlases describe water conditions in two-degree quadrangles covering the remainder of the State (fig. 1).

The distribution of water continues to be one of the major water-resource problems in Oklahoma. In general, surface water of adequate quality for most of man's uses is abundant in the eastern half of the State (fig. 2) while the western half is deficient in surface-water. The western counties rely predominantly on ground water while the eastern counties rely predominantly on surface water (fig. 3).

Oklahoma's major aquifers include alluvium and terrace deposits, the Ogallala Formation (High Plains aquifer), and consolidated deposits that include limestone, sandstone, and gypsum (fig. 4). Significant ground-water declines have occured in of some of the aquifers in the western part of the State because of extensive irrigation. This irrigation, particularly in the Panhandle, accounts for about 76 percent of the ground-water withdrawals in Oklahoma.

Not only are some of the state's aquifers being depleted, but some are also being contaminated by man's activities. An aquifer which has gained considerable attention recently is the Roubidoux aquifer in the northeastern corner of the State. This freshwater aquifer may be threatened by contamination from downward leakage of acid water from the abandoned zinc mines. Current activities by the State of Oklahoma in this mine area are aimed at alleviating the potential contamination hazard to the Roubidoux, a major source of public water supply in the area.

Another major problem for Oklahoma is periodic flooding which can occur almost anywhere in the State. One of the major floods of record occurred in the Tulsa area during May 1984 as the result of a thunderstorm, which persisted over the area for more than 24 hours. Flood-prone areas for much of Oklahoma have been delineated by the Oklahoma District and this information is available in a series of maps (fig. 5).

Water-resources problems in Oklahoma have no easy solutions. The problems can be solved only by long-term comprehensive planning and management, which require reliable hydrologic information. As the State's population increases, an increasing demand will be placed on Oklahoma's water resources. The current activities of the Oklahoma District address many of the State's problems described above. These activities, which are described in the following pages, are designed to provide hydrologic data and related information necessary for the best utilization and management of both Oklahoma's and the Nation's water resources.

SUMMARY OF CURRENT AND RECENTLY COMPLETED PROJECTS

Title: SURFACE-WATER STATIONS

Leader: Joanne K. Kurklin

Number: OK 00-001

Purpose and Scope: To collect, analyze, and publish surface-water records for stations operated by the U.S. Geological Survey and cooperating agencies.

Progress: Continuous discharge records were collected at 126 streamflow sites and continuous stage and contents were collected for 31 lakes and reservoirs. Table 1 includes a list of all current gaging stations maintained in the State. The location of these gaging stations is shown in figure 6.

Cooperating Agencies: See codes at end of report for "COOP" given in tables 1 and 2.

Title: GROUND-WATER STATIONS

Leader: Joanne K. Kurklin

Number: OK 00-002

Purpose and Scope: To collect, compile, and publish records of the groundwater levels in wells at selected sites throughout the State.

Progress: During the 1984 water year, monthly or quarterly water levels were measured at 10 sites in the State and continuous measurements were obtained at 37 sites. A description of these wells is given in table 3 and their locations are shown in figure 7. Nearly 1,100 wells were measured once during the 1983-84 winter season by the Oklahoma Water Resources Board and the U.S. Geological Survey. These wells tap the principal aquifers throughout the State. Figure 8 shows the number of wells in each county included in the winter measurement program. Publication of the 1983-84 water level records is scheduled for March 1985.

Cooperating Agency: Oklahoma Water Resources Board

Title: WATER-QUALITY STATIONS

Leader: Joanne K. Kurklin

Number: OK 00-003

Purpose and Scope: To collect, analyze, and publish water-quality records for stations operated by the U.S. Geological Survey.

Progress: Water quality data for the 1984 water year were collected at 39 streamflow sites and 19 sites on 3 reservoirs. The sites are listed in tables 1 and 2 and their locations are shown in figure 9.

Cooperating Agencies: See codes at end of report for "COOP" given in tables 1 and 2.

Title: SEDIMENT STATIONS

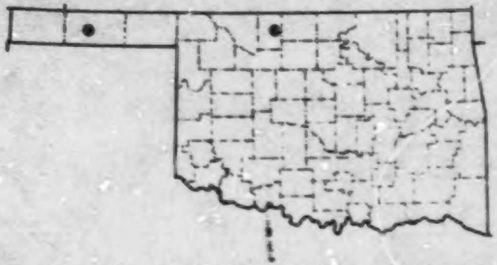
Leader: Stephen P. Blumer

Number: OK 00-004

Purpose and Scope: To provide a national bank of sediment data for use in broad Federal and State planning activities and to provide sediment data for management of Oklahoma's waters.

Progress: Sediment data are presently collected at 36 streamflow sites. These sites are listed in tables 1 and 2 and are identified under the "Water Quality Parameter" column as "S". Figure 10 shows the location of each site.

Cooperating Agencies: See codes at end of report for "COOP" given in tables 1 and 2.



Title: NADP ACID-RAIN MONITORING STATIONS

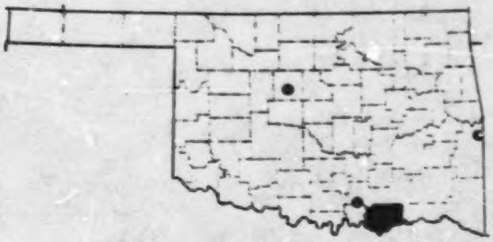
Leader: Joanne X. Kurklin

Number: OK 00-005

Purpose and Scope: To collect continuous data on the quantity and quality of precipitation in Oklahoma. The project is part of the National Atmospheric Deposition Program (NADP).

Progress: Water quality data for 1984 were collected at one site (Great Salt Plains NWR near Jet). Samples were analyzed by the Central Analytical Laboratory at Champaign, Illinois and summarized in publications of the NADP. In the 1985 water year, one additional site was established at Goodwell.

Cooperating Agency: None (U.S. Geological Survey)



Title: LIMITED DETAIL FLOOD INSURANCE STUDIES

Leader: Robert L. Tortorelli

Number: OK 85-006

Purpose and Scope: To study flood problems in the communities of Dover, Pocola, and Tishomingo and a part of Bryan County, Oklahoma. These areas are participating in the flood insurance program, administered by the Federal Emergency Management Agency. Hydraulic studies of all prominent streams in these areas will be made to determine elevations and flood boundaries for the 100-year flood. These flood insurance studies will supersede existing approximate 100-year flood prone maps where they are coincident. Existing flood-prone area maps are shown in figure 5.

Progress: Initial planning has been completed.

Cooperating Agency: Federal Emergency Management Agency (FEMA)

Title: OKLAHOMA WATER-USE DATA SYSTEM

Leader: Jerry D. Stoner

Number: OK 79-007

Purpose and Scope: To operate and maintain a Water-Use Data System for Oklahoma. The system provides information to support planning, development, management, and conservation of the water resources of Oklahoma.

Progress: All county water withdrawal data from 1980 through 1983 has been aggregated and stored in the National Water Use Data System. The report "Estimate of Self-supplied Domestic Water Use in Oklahoma During 1980" has been published as U.S. Geological Survey Water-Resources Investigations Report 83-4223. A report comparing reported withdrawals versus estimated use for 1982 is in the final preparation stage.

Cooperating Agency: Oklahoma Water Resources Board

Title: INVESTIGATION AND ANALYSIS OF
FLOODS FROM SMALL WATERSHEDS
IN OKLAHOMA

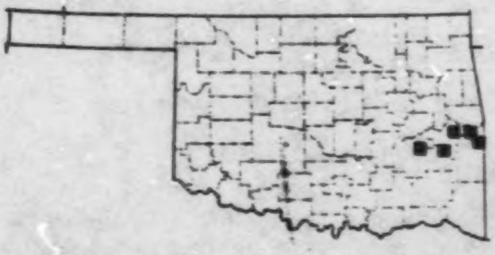
Leader: Leland D. Hauth

Number: OK 64-010

Purpose and Scope: To verify and refine previously defined flood frequency equations derived from a rainfall-runoff model calibrated for small watersheds. Storm hydrographs and annual peak discharges collected from an additional 10 years of record will be used to examine: (1) the sensitivity of the number and size of storm events on the model parameters; (2) true model calibration error; and (3) the observed station flood frequency curve.

Progress: Characteristics of storm hydrographs have been adequately defined; therefore, continuous monitoring of stage and rainfall has been terminated. The present crest-gage network, which includes 37 gages to collect peak discharge data, was maintained through the 1984 water year, at which time 20 years of record were available. The network of 37 gages was reduced to 5 gages beginning in 1985. The rainfall-runoff model verification and final report will be completed in 1985. The station network is listed in tables 1 and 2 and their locations are shown in Figure 11.

Cooperating Agencies: Oklahoma Department of Transportation



Title: HYDROLOGIC DATA ON COAL LEASE AREAS IN EASTERN OKLAHOMA

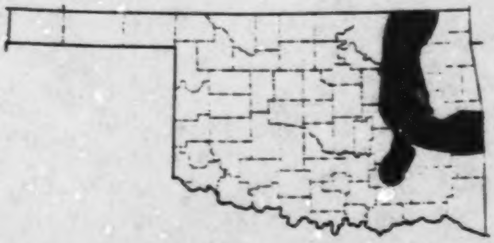
Leader: Robert L. Tortorelli

Project Number: OK 76-039

Purpose and Scope: To assess the regional variability of the hydrology and to monitor changes in the quantity and quality of the surface and ground waters in eastern Oklahoma coal areas as a result of strip-mining.

Progress: Data collected in the study area includes streamflow, water quality, and sediment data obtained at 5 stream-gaging stations and 8 miscellaneous stream sites; ground-water levels obtained from five wells; well inventories and water-quality analysis obtained at approximately 100 sites; and rainfall intensities recorded at 13 rain gages. Data collection has been terminated and preliminary appraisal reports of the hydrology for four areas (Red Oak, Blocker, Stigler, and Rock Island) have been published as Water Resources Investigations (see list of publications). A rainfall-runoff modeling study of Blue Creek, Red Oak Creek, and Holi-Tuska Creek will be completed in 1985.

Cooperating Agency: U.S. Bureau of Land Management



Title: EASTERN OKLAHOMA COAL HYDROLOGY

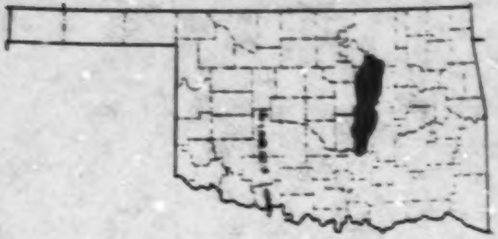
Leader: Melvin V. Marcher

Number: OK 77-042

Purpose and Scope: To provide baseline hydrologic data in areas of past, present, and future strip mining in eastern Oklahoma and appraise the effects of mining on the water resources of the area.

Progress: Preparation of the final report is nearly complete. The report will be published by the Oklahoma Geological Survey.

Cooperating Agency: Oklahoma Geological Survey



Title: DEGRADATION BY BRINE OF THE CHEMICAL QUALITY OF THE WATER RESOURCES OF PARTS OF CREEK, LINCOLN, OKFUSKEE, PAYNE, POTTAWATOMIE, AND SEMINOLE COUNTIES, OKLAHOMA

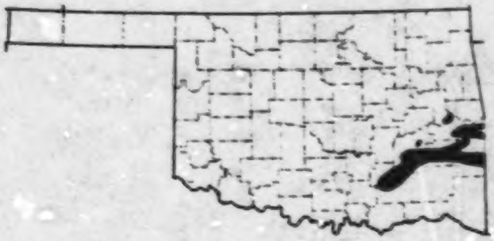
Leader: Robert B. Morton

Number: OK 77-043

Purpose and Scope: To determine where and to what extent the surface and ground water resources have been degraded by salt water in the vicinity of the Vamoosa aquifer of central Oklahoma.

Progress: The study has been completed and the final report has been written and approved. The report will be published by the Oklahoma Geological Survey.

Cooperating Agency: Oklahoma Geological Survey



Title: WATER RESOURCES MONITORING IN THE EASTERN OKLAHOMA COAL FIELDS

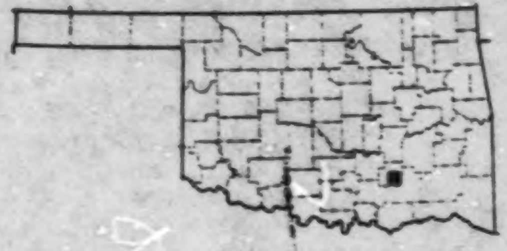
Leader: Robert L. Tortorelli

Number: OK 77-044

Purpose and Scope: To determine the regional hydrologic system and to document changes in the system that may occur as the result of coal strip-mining. Strip-mining activities in the area may cause degradation of the surface and ground water by solution of minerals exposed by mining.

Progress: Collection of ground-water level data, streamflow and water quality data has been completed and analysis of these data has begun. This study will be terminated in 1986 and a report describing the results of this study will be published.

Cooperating Agency: None (U.S. Geological Survey)



Title: HYDROLOGIC MODELING OF COAL CREEK BASIN NEAR LEHIGH, OKLAHOMA

Leader: Stephen P. Blumer

Number: OK 78-049

Purpose and Scope: To predict and evaluate by watershed modeling the effects of strip-mining and subsequent land reclamation on the water resources of the Coal Creek basin near Lehigh in southeastern Oklahoma.

Progress: A data report containing all project data collected between May 1977 and January 1982 was published as Open-File Report 84-599. This data is being applied to the U.S. Geological Survey "Precipitation-Runoff-Modeling-System" (PRMS) to evaluate the probable effects of coal surface mining. PRMS will be used to evaluate the impacts of various combinations of precipitation, climate, and land use on streamflow, sediment yield, and general basin hydrology. A report describing the results of this study will be completed in 1985.

Cooperating Agency: U.S. Bureau of Land Management

Title: ANALYSIS OF THE EFFECTS OF FLOOD WATER RETARDING STRUCTURES ON FLOOD DISCHARGE

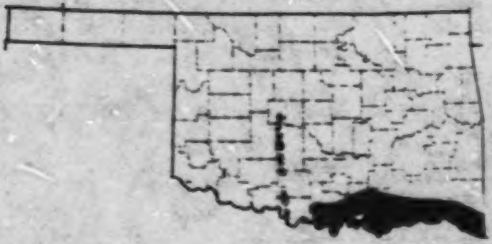
Leader: Robert L. Tortorelli

Project Number: OK 80-054

Purpose and Scope: To provide a method for estimating peak discharge and frequency of floods for Oklahoma streams having drainage areas less than 2,500 square miles and to develop procedures to adjust these estimates for basins regulated by flood retarding structures.

Progress: A summary of rainfall-runoff data from 45 small basins regulated by flood retarding structures was published as U.S. Geological Survey Open-File Report 81-824. The study has been completed and the final report, U.S. Geological Survey Water-Resources Investigations Report 84-4358 has been approved for publication. The report presents equations describing the relation between flood peak discharge and basins regulated by flood retarding structures.

Cooperating Agency: Oklahoma State Department of Transportation



Title: NUMERICAL SIMULATION OF CHANGES IN HEAD AND STORAGE RESULTING FROM PROJECTED PUMPING FROM THE ANTLERS AQUIFER, SOUTHEASTERN OKLAHOMA

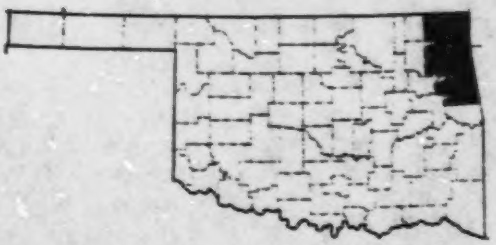
Leader: Robert B. Morton

Number: OK 80-057

Purpose and Scope: To provide water managers and users a quantitative description of the Antlers aquifer. This aquifer underlies an area of 4,400 square miles and contains an estimated 70 million acre-feet of water having less than 1,000 milligrams per liter dissolved solids. A digital model has been used to evaluate the aquifer characteristics and to predict the effect of future withdrawals from the aquifer.

Progress: A steady-state simulation of the 1968-70 ground-water levels has been completed and various pumping rates have been applied to the digital model to evaluate potential stress on the aquifer. Also completed is a sensitivity analysis of aquifer recharge and of the hydraulic conductivity for the aquifer and the overlying beds. The final report has been written and is in review. The report will be published by the Oklahoma Geological Survey.

Cooperating Agency: Oklahoma Geological Survey



Title: GEOHYDROLOGY OF THE ROUBIDOUX AQUIFER, NORTHEASTERN OKLAHOMA

Leader: Scott C. Christenson

Number: OK 80-058

Purpose and Scope: To appraise the quantity and quality of the water resources available in the Roubidoux aquifer for municipal and industrial use. The Roubidoux aquifer occurs at depths between 500 and 1,500 feet within a 4,500 square mile area and ranges in thickness from 100 to 200 feet. Hydraulic and chemical characteristics of the aquifer will be determined.

Progress: The project is complete except for the final report, which is in review. The report will be published by the Oklahoma Geological Survey.

Cooperating Agency: Oklahoma Geological Survey

Title: CENTRAL MIDWEST REGIONAL AQUIFER SYSTEMS ANALYSIS (CM RASA)

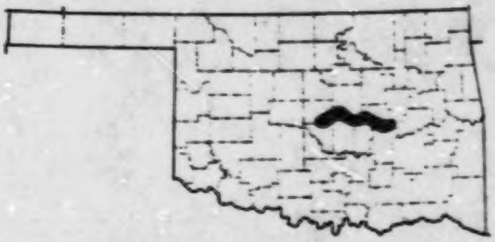
Leader: Scott C. Christenson

Number: OK 81-062

Purpose and Scope: To quantify the flow systems of the deep formations in the Oklahoma section of the Central Midwest Regional Aquifer Systems Analysis. The Oklahoma study includes all formations north of the Choctaw Fault and the Wichita Uplift that are Cretaceous age or older. Special emphasis will be placed on a study of the fresh-water/salt-water interface in the Ozark region of eastern Oklahoma and western Arkansas.

Progress: Large computerized data bases containing information about the geology, chemistry, and hydraulics of the deep formations have been assembled. Maps showing the subsurface geology and the potentiometric levels for each of several hydrogeologic units have been prepared. The investigation includes the development of a solute-transport model and geochemical reaction models.

Cooperating Agency: None (U.S. Geological Survey)



Title: GEOHYDROLOGY OF THE ALLUVIUM AND TERRACE DEPOSITS OF THE NORTH CANADIAN RIVER FROM OKLAHOMA CITY TO LAKE EUFAULA, CENTRAL OKLAHOMA

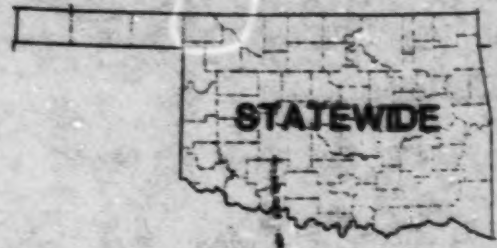
Leader: John S. Havens

Number: OK 82-065

Purpose and Scope: To describe the geohydrologic system and provide hydrologic information which may be used for management and development of the alluvium and terrace deposits of the North Canadian River. The demand for water in the study area, which includes approximately 1,700 square miles from Lake Overholser to Lake Eufaula, is expected to increase due to irrigation, population growth, and economic expansion. A two-dimensional finite-difference model will be used to evaluate hydraulic characteristics of the deposits and make projections of future water levels based on selected pumping rates.

Progress: The model has been calibrated to steady-state conditions. Transient simulations are being made to project the effects of selected pumping rates. A report that includes all the hydrologic data gathered for the project has been published as U.S. Geological Survey Open-File Report 84-808. A final report describing the results of the study will be completed in 1985.

Cooperating Agency: Oklahoma Water Resources Board



Title: A METHOD OF EVALUATING THE
SEVERITY OF DROUGHT IN OKLAHOMA

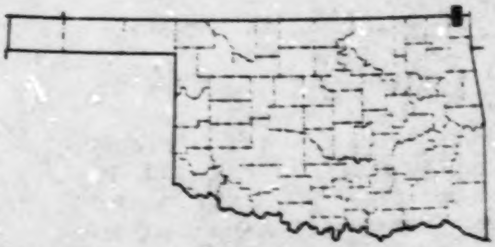
Leader: Ronald L. Hanson

Project Number: OK 83-067

Purpose and Scope: To evaluate the potential severity of a drought based on the seasonal base-flow characteristics of selected unregulated streams in Oklahoma. Determinations include the frequency of occurrence of monthly base flow, seasonal assured base-flow recession curves, and probabilities that monthly base flow will exceed projected assured base flow. The base-flow characteristics for selected index streams are being evaluated and used to describe the regional severity of a possible existing or potential drought in Oklahoma.

Progress: The evaluation of base-flow characteristics has been completed for the Blue River in south-central Oklahoma and Clear Creek in the Panhandle of Oklahoma. Similar evaluations are planned for four other streams in the State to provide a statewide measure of drought conditions. A report describing the method of analysis is near completion and a report describing the application of the method for evaluating drought conditions at the index streams is in preparation.

Cooperating Agency: Oklahoma Water Resources Board



Title: GEOCHEMISTRY OF THE TAR CREEK
LEAD-ZINC AREA IN OKLAHOMA

Leader: David L. Parkhurst

Project Number: OK 83-068

Purpose and Scope: (1) To critically evaluate the thermodynamic data necessary to apply geochemical models to the zinc-cadmium-lead system; (2) to determine the geochemical reactions occurring with these metals in the abandoned mines and in Tar Creek; and (3) to model the chemical reaction of mine-water mixing with ground water of the Roubidoux aquifer.

Progress: Two major samplings of water from the mine workings have been completed and the first major sampling of Tar Creek was conducted. Seven sediment samples were analyzed by scanning electron microscope and 30 sediment samples were submitted for chemical analysis. An aqueous model for zinc is nearly complete. An improved version of the geochemical model PHREEQE has been written and a new version incorporating the Pitzer specific interaction equations is being tested. Numerical modeling of the ground-water flow system has shown that flow in the area is complex and is affected by the geology and water use.

Cooperating Agency: None (U.S. Geological Survey)

Title: AN INVENTORY OF OKLAHOMA SPRINGS

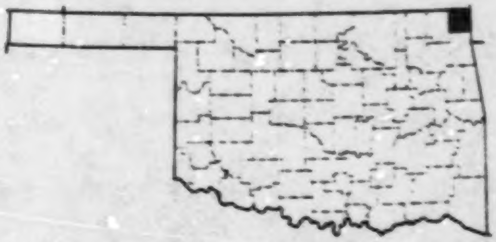
Leader: Robert L. Goemaat

Project Number: OK 84-069

Purpose and Scope: (1) To inventory Oklahoma springs; (2) to measure their discharge, pH, temperature, and specific conductance; and (3) to establish the relation between springflow and ground-water levels.

Progress: A literature search revealed about 65 publications that deal, in some way, with springs in Oklahoma. Information is being extracted from the reports to help locate and characterize springs. All county Soil Conservation Service offices in the State have been requested to supply spring-related information, and all available information related to spring locations has been used to inventory about 60 springs.

Cooperating Agency: Oklahoma Geological Survey



Title: QUANTITATIVE GEOHYDROLOGY OF THE ROUBIDOUX AQUIFER IN OTTAWA COUNTY, NORTHEASTERN OKLAHOMA

Leader: Scott C. Christenson

Project Number: OK 84-070

Purpose and Scope: To determine the hydraulic properties of the formations above and below the Roubidoux aquifer. Information about the hydraulic properties of these rocks is needed for a better understanding of the functioning of the hydrologic system.

Progress: Results of ground-water flow modeling established the transmissivity of the aquifer within a narrow range. The model indicates that faulting in the study area probably influences hydrologic behavior of the aquifer.

Cooperating Agency: Oklahoma Geological Survey

Title: OVERVIEW OF DISSOLVED-SOLIDS TRANSPORT IN THE ARKANSAS RIVER BASIN

Leader: Jerry D. Stoner

Project Number: OK 84-071

Purpose and Scope: To determine, from existing data, average dissolved-solids transport and concentrations throughout the Arkansas River basin from the headwaters in Colorado to the mouth in Arkansas. Trends in dissolved-solids concentration in the basin were also determined.

Progress: The project has been completed and the findings are to be published as a chapter in the U.S. Geological Survey publication "National Water Summary, 1984".

Cooperating Agency: None (U.S. Geological Survey)

Title: GEOHYDROLOGY OF ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER FROM NEAR THE KANSAS STATE LINE TO GUTHRIE, OKLAHOMA

Leader: John S. Havens

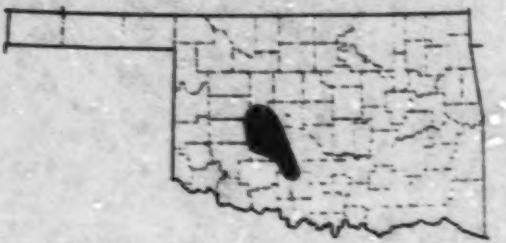
Project Number: OK 85-072

Purpose and Scope: (1) To describe the geologic setting of the alluvial and terrace deposits along the Cimarron River from Freedom, Oklahoma to Guthrie, Oklahoma; (2) to estimate the approximate quantity of water in storage, the approximate annual recharge and the approximate annual discharge from the alluvium and terrace deposits and associated aquifers to the Cimarron River; (3) to provide estimates of the effects of future withdrawals from the aquifer by means of a digital model of the aquifer-river system; and (4) to document sources of existing and potential natural saline pollution.

Progress: A literature search, using a computerized bibliographic search routine, has been made. Well schedules from all counties within the project area have been retrieved from WATSTORE; these include data on location, water level, aquifer, well depth, and water use. Drafting has begun on the base map, including the geology.

Cooperating Agency: Oklahoma Geological Survey

Title: NUMERICAL SIMULATION OF SATURATED THICKNESS AND STORAGE CHANGES FROM PROJECTED PUMPING FROM THE MARLOW-RUSH SPRINGS AQUIFER, SOUTHWESTERN OKLAHOMA



Leader: Robert B. Morton

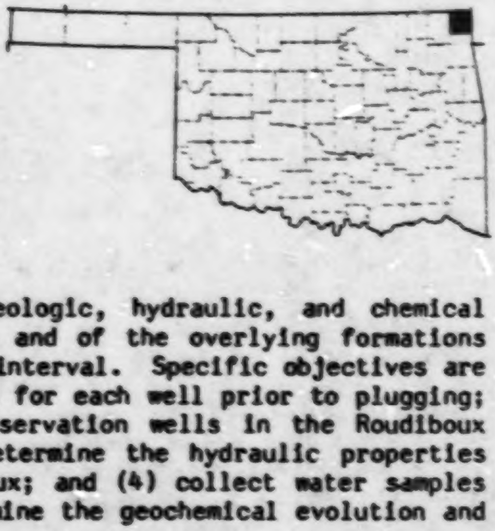
Project Number: OK 85-073

Purpose and Scope: To describe the geohydrologic system and provide hydrologic information related to the Marlow-Rush Springs aquifer in southwestern Oklahoma. Model simulations of the effect of future pumping on the aquifer will aid in the management and use of the Marlow-Rush Springs aquifer.

Progress: Elevation map of base of aquifer is completed and digitized. Data collection for the 1984-85 water-table elevations is about 50 percent completed.

Cooperating Agency: Oklahoma Geological Survey

Title: HYDROGEOLOGICAL AND GEOCHEMICAL STUDY OF THE ROUBIDOUX AQUIFER IN THE VICINITY OF THE PICHER MINING FIELD, NORTHEASTERN OKLAHOMA



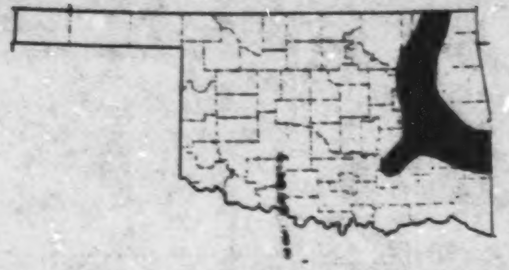
Leader: Scott C. Christenson

Project Number: OK 85-074

Purpose and Scope: To determine the geologic, hydraulic, and chemical characteristics of the Roubidoux Formation and of the overlying formations that separate the Roubidoux from the mined interval. Specific objectives are to: (1) obtain a suite of geophysical logs for each well prior to plugging; (2) construct a test well and several observation wells in the Roudiboux formation; (3) perform aquifer tests to determine the hydraulic properties and leakage characteristics of the Roubidoux; and (4) collect water samples for chemical and isotope analyses to determine the geochemical evolution and age of water in the Roubidoux.

Progress: Geophysical logging is about 25 percent completed and two possible locations have been selected for the well installations.

Cooperating Agency: Oklahoma Water Resources Board



Title: LIMNOLOGY OF SELECTED COAL-MINE PONDS IN THE COAL-MINING REGION OF EASTERN OKLAHOMA

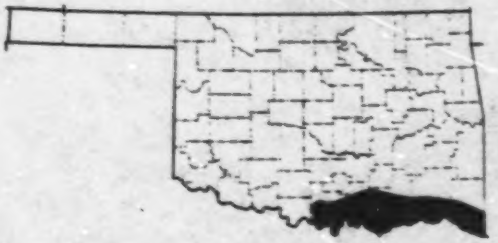
Leader: Renee S. Barta

Project Number: OK 85-075

Purpose and Scope: To determine the limnological characteristics of both strip-mine ponds and other non-mined ponds in the coal area of eastern Oklahoma. Hydrologic, chemical, and biological data will be collected and analyzed to determine (1) if limnological differences exist between the mined and non-mined ponds and (2) if limnological differences exist between mined ponds associated with different coal seams, different ages, or different mining and reclamation practices.

Progress: Equipment has been ordered and a tentative sampling schedule has been established. Statistical analyses of available chemical data are being conducted to detect any trends and possible causes for variance between ponds.

Cooperating Agency: Oklahoma Geological Survey



Title: SIMULATED EFFECTS OF PROJECTED WATER USE ON THE ANTLERS AQUIFER, SOUTHEASTERN OKLAHOMA

Leader: Robert B. Morton

Project Number: OK 85-076

Purpose and Scope: To simulate the effects that projected water use would have on the Antlers aquifer and to present the results in a format that is readily usable by water-management agencies. The specific objectives are to: (1) update the data base assembled for earlier studies of the Antlers aquifer; (2) adapt previously constructed data matrices for use with the USGS modular ground-water model; (3) perform model simulations using projected water withdrawal rates provided by the U.S. Army Corps of Engineers; and (4) present the results of the simulations as maps and tables that depict pertinent hydrologic information for each decennial year from 1990 to 2040.

Progress: Updating of the data base and reformating of previously constructed data matrices have begun.

Cooperating Agency: U.S. Army Corps of Engineers

Title: HYDROGEOLOGIC CHARACTERISTICS OF ROCK UNITS OF LOW PERMEABILITY IN OKLAHOMA

Leader: W. F. Horak

Project Number: OK 85-077

Purpose and Scope: To develop the hydrogeologic knowledge that will be required to identify optimal sites for the disposal of hazardous waste in Oklahoma and to assess, in general, the roles of low permeability rock units in the hydrodynamics of Oklahoma's sedimentary basins. The hydraulic properties of some of the predominantly shaley formations in Oklahoma will be determined and an analysis of their solute transport characteristics will be made.

Progress: A review of the pertinent literature has begun and a detailed project planning document is being prepared.

Cooperating Agency: Oklahoma Geological Survey

Title: ANALYSIS OF THE GROUND-WATER OBSERVATION WELL NETWORK IN OKLAHOMA

Leader: W. F. Horak

Project Number: OK 85-078

Purpose and Scope: To evaluate the current observation-well network and to determine its adequacy in meeting ground-water information needs. Once those needs have been defined, statistical techniques may be used to design a network that will provide areally-distributed data of some minimally acceptable precision with optimum efficiency. It is expected that such an analysis of the current statewide network will indicate some areas where observation wells are too sparse and others where they are unnecessarily dense.

Progress: The project is in the initial planning stages, however, considerable progress has been made in defining ground-water information needs.

Cooperating Agency: Oklahoma Water Resources Board

OTHER DISTRICT ACTIVITIES IN SUPPORT OF THE STATE'S WATER PROGRAMS

As part of the Geological Survey's responsibility to provide hydrologic information to all water users, the Survey participates in numerous other activities in addition to the regular Federal and State cooperative programs of hydrologic data collection and analysis. These other activities include involvement in various water-related committees and task forces, the review of technical reports on hydrology prepared by other agencies and universities, answering requests for hydrologic data and related information, and presenting information to schools, civic groups, and other interested groups on the water resources of Oklahoma and the Nation. Some of the current special activities are described below:

Committee Activities - Members of the Oklahoma District staff participate in various technical committees and task forces dealing with water problems. Included are: (1) the Governor's Coordinating Committee on Water Resources Research; (2) a ground-water committee to develop water-quality standards for Oklahoma's major aquifers; (3) a water-quality advisory board that reviews the State's ambient surface-water quality monitoring network, selects stream- and lake-sampling sites, determines constituents sampled, and establishes sampling frequency; (4) a task force to evaluate surface- and ground-water contamination from abandoned zinc mines in northeastern Oklahoma; (5) a Rural Abandoned Mine Program (RAMP) committee, which selects for reclamation abandoned surface mines based on their hazard to life and health; and (6) an American Society of Civil Engineers' task committee on water requirements of native vegetation.

Special Activities - During 1984 considerable effort was devoted to collecting flood data and preparing a report on the May 26 flood in the Tulsa, Oklahoma area. A report entitled "National Water Summary 1983" (see list of publications) was also prepared in 1984 which describes the major hydrologic events and issues prevailing in each state of the nation. The District is presently conducting a 3-phase study to define and document the most cost-effective means of furnishing streamflow information in Oklahoma. The first phase of this study has been completed and a report entitled "Use and availability of continuous streamflow records in Oklahoma" (see list of publications) has been published.

OKLAHOMA REPORTS PUBLISHED BY THE U.S. GEOLOGICAL SURVEY SINCE 1983

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Blumer, S. P., and Hauth, L. D., 1984, Use and availability of continuous streamflow records in Oklahoma: U.S. Geological Survey Open-File Report 84-747, 23 p.

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_____1984a, Water resources data, Oklahoma, water year 1982: U.S. Geological Survey Water-Data Report OK-82-1, 336 p.

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SOURCES OF U.S. GEOLOGICAL SURVEY PUBLICATIONS AND INFORMATION

BOOKS, MAPS, AND PERIODICALS

Since 1879, the U.S. Geological Survey has served the public and Federal, State, and local governments by collecting, analyzing, and publishing detailed information about the Nation's mineral, land, and water resources. This information is in a variety of map, book, and other formats and is available from several sources within the Geological Survey.

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INFORMATION

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USGS Public Inquiries Offices provide general information about the Geological Survey's programs and its publications, and they sell, over the counter, maps of local areas and books of local and general interest. The nearest Public Inquiries Office to the Oklahoma City area is:

U.S. Geological Survey Public Inquiries Office
Rm. 1-C-45, Federal Bldg., 1100 Commerce Street,
Dallas, TX 75242
Telephone: (214) 767-0198

Data Information Services:

The Oklahoma District also manages the following data information services which provide water-resource data in an easy-to-use and readily available form:

NAWDEX (NAtional Water Data EXchange) provides information on the location and types of data available on water and related subjects. (District contact for this information is Lionel D. Mize.)

WATSTORE (WATer Data STOrage and REtrieval System) provides the following types of information:

1. Well depth, depth to water, well yield, name of aquifer, and well construction data for nearly 20,000 ground-water wells in Oklahoma.
2. Current discharge and/or quality-of-water data from 156 streams, lakes, and springs in Oklahoma.
3. Current peak-flow data from 42 partial-record stations in Oklahoma.

(District contact for this information is Jonathon C. Scott.)

General information on Oklahoma water resources and publications:

For general information on water resources and availability of publications dealing with Oklahoma, contact:

James H. Irwin, District Chief
U.S. Geological Survey, Water Resources Division
Rm. 621, Old Post Office Building
215 Dean A. McGee Avenue
Oklahoma City, OK 73102
Telephone: (405) 231-4256

TABLE 1.--ALPHABETICAL LISTING OF CURRENT AND HISTORICAL GAGING STATIONS MAINTAINED BY THE U.S. GEOLOGICAL SURVEY
SEPTEMBER 30, 1984
SYMBOLS DEFINED ON LAST PAGE OF REPORT

STATION NUMBER	STATION NAME	TYPE OF DATA	Q.W. PARA-METERS	STAGE SOURCE	COOP	DRAINAGE AREA (SQ.MI.)	PERIOD OF RECORD
07243550	Adams Ck nr Beggs	CSR				5.90	1965-76
07243550	Adams Ck nr Beggs	CS			HG	5.90	1965-
07242160	Alabama Ck nr Weleetka	CSR				5.90	1965-76
07242160	Alabama Ck nr Weleetka	CS			HGJ	16.5	1965-
07302510	Altus Canal blw Lake Altus nr Altus	QWP				2515.	1952,55-57
07232650	Aqua Frio Ck nr Felt	CSR				31.0	1964-75
07229430	Arbeca Ck nr Allen	CS				2.26	1964-74
07164400	Arkansas R Sand Springs Br nr Tulsa	QWH	BCNP			74615.	1946-77
07164400	Arkansas R Sand Springs Br nr Tulsa	QWMP	CNP			74615.	1976-77
07164400	Arkansas R Sand Springs Br nr Tulsa	SED	S			74615.	1974-77
07165520	Arkansas R at Bixby	QWD	CP			150547.	1949
07250550	Arkansas R at Dam 13 nr Van Buren	QWMP	CNP			150547.	1976-77
07148128	Arkansas R at Kaw City	QWD	CNP			8670.	1949-51
07165610	Arkansas R at Muskogee	QWP	CP				1957,62,63
07152500	Arkansas R at Ralston	STR		DCP	C	54465.	1925-
07152500	Arkansas R at Ralston	QWH	BCNP			54465.	1950-63,65-80
07152500	Arkansas R at Ralston	QWMP	CNP			54465.	1973-79
07152500	Arkansas R at Ralston	QWP	BCNP		CAE	54465.	1981-
07152500	Arkansas R at Ralston	QWD	P	OBS	CA	54465.	1950-63,68-
07152500	Arkansas R at Ralston	SED	S		CAE	54465.	***1973-
07164500	Arkansas R at Tulsa	STRP		TMK	C	74615.	1925-
07164500	Arkansas R at Tulsa	QWH	BCNP		CA	74615.	1960-61,77-
07164500	Arkansas R at Tulsa	QWMP	CNP			74615.	1977
07164500	Arkansas R at Tulsa	QWP	BCNP		CA	74615.	1960-61,81-
07164500	Arkansas R at Tulsa	QWD	P	OBS	C	74615.	1977-
07164500	Arkansas R at Tulsa	SED	S		A	74615.	1977-
07250500	Arkansas R at Van Buren, AR	QWP	CP			150482.	1960-61
07250500	Arkansas R at Van Buren, AR	QWMP	CNP			150482.	1973-75
07194551	Arkansas R at Webbers Falls	QWD	CP			97049.	1949,57-63
07194550	Arkansas R at Webbers Falls L&D	QWMP	CNP				1973-75
07165570	Arkansas R nr Haskell	STRP		DAR	C	75473.	1972-
07165570	Arkansas R nr Haskell	QWP	BCNP			75473.	1974-75
07165570	Arkansas R nr Haskell	QWMP	CNP			75473.	1974-79
07165570	Arkansas R nr Haskell	SED	S			75473.	1974-75
07164700	Arkansas R nr Jenks	QWMP	CNP				1973-74
07194500	Arkansas R nr Muskogee	STR				96674.	1926-70
07194500	Arkansas R nr Muskogee	QWP	CP			96674.	1957,63
07194500	Arkansas R nr Muskogee	QWMP	CNP			96674.	1973-79
07148140	Arkansas R nr Ponca City	STR			C	46530.	1977-
07148140	Arkansas R nr Ponca City	QWMP	CNP			46530.	1978-79

* = CONTINUOUS STREAMFLOW RECORDS FOR THIS PERIOD
** = SOME RECORDS IN INTERVENING YEARS
*** = SOME RECORDS MAY HAVE BEEN COLLECTED PREVIOUSLY

TABLE 1.--ALPHABETICAL LISTING OF CURRENT AND HISTORICAL GAGING STATIONS MAINTAINED BY THE U.S. GEOLOGICAL SURVEY
SEPTEMBER 30, 1984
SYMBOLS DEFINED ON LAST PAGE OF REPORT

STATION NUMBER	STATION NAME	TYPE OF DATA	Q.W. PARA-METERS	STAGE SOURCE	COOP	DRAINAGE AREA (SQ.MI.)	PERIOD OF RECORD
07148140	Arkansas R nr Ponca City	SED	S		C	46530.	1978-
07246500	Arkansas R nr Sallisaw	STRP				147757.	1948-70
07246500	Arkansas R nr Sallisaw	QWD	CP			147757.	1957,59-63
07165600	Arkansas R nr Tullahassee	STR				75815.	1971-72
07146500	Arkansas R at Arkansas City, KS	STRP				43713.	1955-76
07146500	Arkansas R at Arkansas City, KS	QWD	CNP	BDT	W	43713.	1952-
07146500	Arkansas R at Arkansas City, KS	QWMP	CNP			43713.	1972-73
07324500	Barnitz Ck nr Arapaho	STR				243.	1943-64
07324500	Barnitz Ck nr Arapaho	QWP	CP			243.	1952,55
07196900	Baron Fk at Dutch Mills, AR	QWP	C			43.0	1959-61
07197000	Baron Fk at Eldon	STR		BDT	CJG	307.	1948-
07197000	Baron Fk at Eldon	QWP	CP			307.	1958-60
07197000	Baron Fk at Eldon	QWMP	CNP			307.	1975-79
07194512	Bayou Manard nr Ft Gibson	QWP	CP				1961
07300150	Bear Ck nr Vinson	CSR				7.24	1964-76
07300150	Bear Ck nr Vinson	CS		HG		7.24	1964-
07232400	Beaver (Sand) Ck nr Texhoma	LF				217.	1967-71
07152380	Beaver Ck (E Br) nr Grainola	QWP	CP				1950
07148126	Beaver Ck nr Kaw City	QWP	COP				1950,54-55
07312750	Beaver Ck nr Lawton	QWP	CP				1948,61
07313702	Beaver Ck nr Ryan	QWP	CP				1960-61
07313500	Beaver Ck nr Waurika	STR			C	563.	1953-
07313500	Beaver Ck nr Waurika	QWP	CP			563.	1953-66
07313500	Beaver Ck nr Waurika	QWMP	CNP			563.	1975-79
07234000	Beaver R at Beaver	STR		DCP	C	7955.	1937-
07234000	Beaver R at Beaver	QWD	BCNP			7955.	1952,58-59,62-82
07234000	Beaver R at Beaver	QWP	BCNP		A	7955.	1983-
07234000	Beaver R at Beaver	QWMP	CNP			7955.	1973-77
07234000	Beaver R at Beaver	SED	S		A	7955.	1974-
07232245	Beaver R at Felt	QWMP	CNP			850.	1977
07232250	Beaver R nr Felt	CS				879.	1972-79
07232250	Beaver R nr Felt	STR			JG	879.	1979-
07234500	Beaver R nr Fort Supply	STGU				9615.	*1937-51,51-79
07232500	Beaver R nr Guymon	STR		DCP	C	2139.	1937-
07232500	Beaver R nr Guymon	QWD	BCNP			2139.	1952,54-63,68-79
07232500	Beaver R nr Guymon	QWMP	CNP			2139.	1973-77
07232500	Beaver R nr Guymon	SED	S		C	2139.	1975-
07233210	Beaver R nr Hardesty	STR			C	4770.	1978-
07233210	Beaver R nr Hardesty	SED	S		C	4770.	1978-
07232630	Beaver R nr Hooker	QWP	CP			3017.	1972-73,75-79

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STATION NUMBER	STATION NAME	TYPE OF DATA	Q.W. PARA- METERS	STAGE SOURCE	COOP	DRAINAGE AREA (SQ.MI.)	PERIOD OF RECORD
07232630	Beaver R nr Hooker	QWMP	CNP			3017.	1977
07232610	Beaver R nr Optima	QWP	CP				1972-73
07242500	Bellcow Ck at Chandler	STR				46.0	1948-55
07242500	Bellcow Ck at Chandler	QWP	CP			46.0	1949-54
07237800	Bent Ck nr Seiling	CS			JG	139.	*1966-70,71-
07237800	Bent Ck nr Seiling	QWP	CP			139.	1956
07246630	Big Black Fox Ck nr Long	CS			MG	5.32	1964-
07337220	Big Br nr Ringold	CS				1.99	1964-74
07190597	Big Cabin Ck Trib nr Welch	QWMP	CP				1980-83
07190597	Big Cabin Ck Trib nr Welch	PR					1980-83
07190597	Big Cabin Ck Trib nr Welch	SED	S				1980-83
07191000	Big Cabin Ck nr Big Cabin	STR			LG	466.	1947-
07191000	Big Cabin Ck nr Big Cabin	QWP	CP			466.	1951-60,64-71
07191000	Big Cabin Ck nr Big Cabin	QWMP	CNP			466.	1975-77
07190600	Big Cabin Ck nr Pyramid Corners	CS				71.1	1963-72**,73-79
07190650	Big Cabin Ck nr Vinita	QWP	CP				1949-51
07190595	Big Cabin Ck nr Welch	QWMP	CP			28.1	1980-83
07190595	Big Cabin Ck nr Welch	PR				28.1	1980-83
07190595	Big Cabin Ck nr Welch	SED	S			28.1	1980-83
07171220	Big Ck nr Nowata	QWP	CP				1952-53,59
07328030	Big Dry Ck nr Alex	CS				7.57	1961-74
07178650	Billy Ck Trib nr Wagoner	CS				5.71	1966-72
07176465	Birch Ck blw Birch Lake nr Barnsdall	STRP			C	66.0	1978-
07176455	Birch Ck nr Barnsdall	QWP	CP				1965-66
07176460	Birch Lake nr Barnsdall	RESP			C	66.0	1977-
07176500	Bird Ck at Avant	STRP		DAR	C	364.	1945-
07176500	Bird Ck at Avant	QWP	CP			364.	1965-66
07176500	Bird Ck at Avant	QWMP	CNP			364.	1973-79
07178400	Bird Ck at Catoosa	QWMP	CNP				1978-79
07176350	Bird Ck nr Barnsdall	QWP	CP				1949-53
07178050	Bird Ck nr Catoosa	QWP	CP		JG	1080.	1965-
07178050	Bird Ck nr Catoosa	QWMP	CNP			1080.	1975-79
07178000	Bird Ck nr Owasso	STR				1022.	1936-39
07178000	Bird Ck nr Owasso	QWP	CP			1022.	1948-53
07176320	Bird Ck nr Pawhuska	QWP	CP			157.	1952-53
07176910	Bird Ck nr Skiatook	QWP	CP				1948-53
07177500	Bird Ck nr Sperry	STRP		TMK	C	905.	1938-
07177500	Bird Ck nr Sperry	QWD	CP			905.	1952-53,**,64-76
07177500	Bird Ck nr Sperry	QWMP	CNP			905.	1976-77

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07299705	Bitter Ck nr Hollis	CS				11.3	1964-72
07152520	Black Bear Ck Trib nr Garber	CS				0.97	1964-75
07152520	Black Bear Ck Trib nr Garber	QWP	CP			0.97	1958-59
07153000	Black Bear Ck at Pawnee	STR		DCP	C	576.	1944-
07153000	Black Bear Ck at Pawnee	QWP	CP			576.	1952-53,56-59,61-71
07153000	Black Bear Ck at Pawnee	QWMP	CNP			576.	1978-79
07153000	Black Bear Ck at Pawnee	SED	S		C	576.	1978-
07152950	Black Bear Ck nr Morrison	QWP	CP				1951,58-59
07152590	Black Bear Ck nr Perry	QWP	CP				1950,58-59
07230708	Blacksmith Ck nr Pearson	QWP	CP				1961
07311200	Blue Beaver Ck nr Cache	STR			A	24.6	1964-
07311200	Blue Beaver Ck nr Cache	QWP	BCNP		A	24.6	1965-
07311200	Blue Beaver Ck nr Cache	SED	S		A	24.6	1965-
07232008	Blue Ck Trib A nr Blocker	PR				4.67	1978-81
07232008	Blue Ck Trib A nr Blocker	QWP	CNP			4.67	1978-81
07232008	Blue Ck Trib A nr Blocker	SED	S			4.67	1978-81
07232009	Blue Ck Trib B nr Blocker	PR				0.22	1976-78
07232009	Blue Ck Trib B nr Blocker	QWP	CNP			0.22	1976-78
07232009	Blue Ck Trib B nr Blocker	SED	S			0.22	1976-78
07232010	Blue Ck nr Blocker	STR				12.1	1976-82
07232010	Blue Ck nr Blocker	QWP	CNP			12.1	1976-82
07232010	Blue Ck nr Blocker	SED	S			12.1	1976-81
07332450	Blue R at Armstrong	QWMP	CNP			224.	1977
07332350	Blue R at Connerville	QWP	CP				1951-57,62
07332400	Blue R at Milburn	STR		OBS	JG	203.	1965-
07332400	Blue R at Milburn	QWP	CP			203.	1956-60
07332500	Blue R nr Blue	STRP			C	476.	1936-
07332500	Blue R nr Blue	QWD	CP			476.	1951-58,60-63
07332500	Blue R nr Blue	QWMP	CNP			476.	1973-79
07332390	Blue R nr Connerville	STR				162.	1977-79
07159500	Bluff Ck abv Lake Hefner nr OKC	STR				1.62	1950-58
07159450	Bluff Ck at OKC	CS				1.64	1974-78
07157940	Bluff Ck nr Buttermilk, KS	STR				657.	1973-79
07157940	Bluff Ck nr Buttermilk, KS	QWH	CP			657.	1973-79
07159640	Bluff Ck blw Bethany Swg Trtmt Plnt, OKC	QWP	CNOP				1983-84
07160310	Boggy Ck Trib at Garriott Rd, Enid	QWP	BCNP				1975
07160315	Boggy Ck abv Swg Trtmt Plnt, Enid	QWP	BCNP				1975
07160300	Boggy Ck at 30th St, Enid	STR				35.8	1975
07160300	Boggy Ck at 30th St, Enid	QWD	BCNP			35.8	1975

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07160280	Boggy Ck at Enid Ave, Enid	STR				20.8	1975-
07160280	Boggy Ck at Enid Ave, Enid	QWP	BCNP			20.8	1975
07160320	Boggy Ck blw Swg Trtmt Plnt, Enid	QWP	BCNP				1975
07152250	Bois D'Arc Ck nr Ponca City	QWP	CP			100.	1953,58-63
07152250	Bois D'Arc Ck nr Ponca City	LF				100.	1965-73
07336785	Bokchito Ck nr Garvin	CSR				2.96	1965-75
07335320	Bokchito Ck nr Soper	CS				16.6	1965-75
07249073	Brazil Ck nr Lodi	PR				28.8	1980-81
07249073	Brazil Ck nr Lodi	QWP	CNP			28.8	1980-81
07249073	Brazil Ck nr Lodi	SED	S			28.8	1980-81
07249200	Brazil Ck nr Panama	QWP	CP				1960-61
07249060	Brazil Ck nr Red Oak	PR				2.74	1978-81
07249060	Brazil Ck nr Red Oak	QWP	CNP			2.74	1978-81
07249060	Brazil Ck nr Red Oak	SED	S			2.74	1978-81
07249080	Brazil Ck nr Walls	STR		OBS	A	69.1	1978-81,84-
07249080	Brazil Ck nr Walls	QWP	CNP			69.1	1978-81
07249080	Brazil Ck nr Walls	SED	S			69.1	1978-81
07316140	Brier Ck nr Powell	CSR				12.0	1965-76
07316140	Brier Ck nr Powell	CS			MG	12.0	1965-
07241220	Brock Ck at SW 59, OKC	CSR				2.26	1976-81
07338900	Broken Bow Lake nr Broken Bow	RESP		RES	C	754.	1968-
07244790	Brooken Ck nr Enterprise	CS				5.66	1964-71
07231975	Brushy Ck nr Haileyville	STR				139.	1978-82
07231975	Brushy Ck nr Haileyville	QWP	BCNP			139.	1978-82
07231975	Brushy Ck nr Haileyville	SED	S			139.	1978-81
07191260	Brushy Ck nr Jay	CS				16.0	1965-72
07335900	Buck Ck nr Moyers	QWP	CP			100.	1956-57,60
07157960	Buffalo Ck nr Lovedale	STR			JG	408.	1966-
07157960	Buffalo Ck nr Lovedale	QWH	CP			408.	1974-79
07157960	Buffalo Ck nr Lovedale	QWMP	CNP			408.	1975-79
07157960	Buffalo Ck nr Lovedale	SED	S			408.	1978-79
07178640	Bull Ck nr Inola	CS				10.7	1965-75
07331401	Butcher Pen Ck nr Tishomingo	QWP	CP				1961
07331410	Buzzard Ck nr Reagan	CS				4.30	1965-75
07334200	Byrds Mill Spring nr Fittstown	STR			RG		1959-
07334200	Byrds Mill Spring nr Fittstown	QWP					1953,55-56
07246600	Cache Ck nr Cowlington	CS				20.6	1964-72
07246600	Cache Ck nr Cowlington	QWP	CP			20.6	1959-61
07330500	Caddo Ck nr Ardmore	STR				298.	1936-50

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07330500	Caddo Ck nr Ardmore	QWP	CP			298.	1950-51,58
07171000	California Ck nr Nowata	QWP	CP				1952-53,59
07228960	Canadian R Trib nr Newcastle	CS				3.32	1965-75
07228500	Canadian R at Bridgeport	STR		OBS	JG	25229.	1944-64,69-
07228500	Canadian R at Bridgeport	QWD	CNP			25229.	1949-61,64,70-81
07228500	Canadian R at Bridgeport	QWP	CNOP		JG	25229.	1981-
07228500	Canadian R at Bridgeport	QWMP	CNP			25229.	1973-79
07228500	Canadian R at Bridgeport	SED	S			25229.	1978-81
07231500	Canadian R at Calvin	STR		DCP	C	27952.	**1905-06,44-
07231500	Canadian R at Calvin	QWP	BCNP		JGAE	27952.	1950-53,60-61,65-
07231500	Canadian R at Calvin	QWMP	CNP			27952.	1973-77
07231500	Canadian R at Calvin	SED	S		CAE	27952.	1975-
07239650	Canadian R at Cemetary Rd nr Yukon	QWP	CNOP				1973
07229050	Canadian R at Norman	QWP	CP				1958
07229200	Canadian R at Purcell	STR				25939.	1960-61,79-82
07229200	Canadian R at Purcell	QWD	CNP			25939.	1952,**60-63,74-75
07229200	Canadian R at Purcell	QWMP	CNP			25939.	1975-79
07229200	Canadian R at Purcell	SED	S			25939.	1979-82
07228250	Canadian R at Taloga	QWP	C				1953
07228000	Canadian R nr Canadian, TX	QWMP	CNP			22866.	1973-77
07228160	Canadian R nr Cheyenne	QWMP	CP				1950-51
07229000	Canadian R nr Newcastle	STR				25763.	1939-45
07229100	Canadian R nr Noble	STR				25911.	1960-61,63-75
07229100	Canadian R nr Noble	QWD	CNP			25911.	1965-71,73-74
07229100	Canadian R nr Noble	QWMP	CNP			25911.	1973-75
07229100	Canadian R nr Noble	SED	S			25911.	1976
07228200	Canadian R nr Roll	QWP	CP			23615.	1950-53,62-63
07228200	Canadian R nr Roll	QWMP	CNP			23615.	1976-77
07228300	Canadian R nr Thomas	QWP	CP				1952-53,61-63
07228700	Canadian R nr Union City	QWP	CNP				1952-53,73
07245000	Canadian R nr Whitefield	STRP			CA	47576.	1938-
07245000	Canadian R nr Whitefield	QWP	BCNP		JGA	47576.	1947-64,67-
07245000	Canadian R nr Whitefield	QWMP	CNP			47576.	1973-77
07245000	Canadian R nr Whitefield	QWD	P	OBS	JGA	47576.	1944-45,46-64,66-
07245000	Canadian R nr Whitefield	SED	S		A	47576.	1975-
07176525	Candy Ck nr Avant	QWP	CP				1952,65-66
07176800	Candy Ck nr Wolco	STRP				30.6	1969-81
07165581	Cane Ck nr Jamesville	QWP	CP				1960-61
07332800	Caney Boggy Ck nr Ashland	QWD	CNP			49.0	1972-75
07174000	Caney Ck nr Copan	STRP				424.	1944-58

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07174500	Caney R at Bartlesville	STRP				1465.	1950-56
07174500	Caney R at Bartlesville	QWP	CP			1465.	1952-53,67-68
07172470	Caney R nr Boulangerville	QWP	CP				1952-53
07175550	Caney R nr Collinsville	QWP	CP				1949-53,59
07172000	Caney R nr Elgin, KS	QWMP	CNP			445.	1973-75
07173000	Caney R nr Hulah	STRP			C	736.	1937-
07173000	Caney R nr Hulah	QWP	CP			736.	1952-53,**,60,63-64
07173000	Caney R nr Hulah	QWMP	CNP			736.	1975-79
07174700	Caney R nr Ochelata	STRP				1753.	1956-76
07174700	Caney R nr Ochelata	QWP	CP			1753.	1960-61
07174700	Caney R nr Ochelata	QWMP	CNP			1753.	1973-75
07175500	Caney R nr Ramona	STRP		ORS	C	1955.	1935-39,45-
07175500	Caney R nr Ramona	QWP	CNP		JG	1955.	1952-53,**65-
07175500	Caney R nr Ramona	QWMP	CNP			1955.	1975-79
07238500	Canton Lake nr Canton	RES		DCP	C	12483.	1948-
07238500	Canton Lake nr Canton	QWP	CP		JG	12483.	**1949-50,68-
07309480	Canyon Ck nr Medicine Park	CS				3.35	1965-75
07228600	Canyon View Ck nr Geary	CS				11.8	1964-72
07154400	Carrizozo Ck nr Kenton	CS				111.	1953-70
07248600	Caston Ck at Wister	STR				72.9	1978-82
07248600	Caston Ck at Wister	QWP	BCNP			72.9	1978-81
07248600	Caston Ck at Wister	SED	S			72.9	1978-81
07333330	Chickasaw Ck Trib nr Stringtown	CS				3.19	1965-72
07333500	Chickasaw Ck nr Stringtown	CS				32.7	*1955-68,69-75
07333500	Chickasaw Ck nr Stringtown	QWP	CP			32.7	1955-58,60
07329772	Chigley Sandy Ck nr Davis	QWP	CP				1955,61
07151903	Chikaskia R blw Braman Lake nr Braman	QWP	CP				1958,59,62
07152000	Chikaskia R nr Blackwell	STR		DCP	JGC	1859.	1935-
07152000	Chikaskia R nr Blackwell	QWP	CP			1859.	1952-63
07152000	Chikaskia R nr Blackwell	QWMP	CNP			1859.	1975-79
07151900	Chikaskia R nr Braman	QWMP	CNP			1510.	1977
07151550	Chikaskia R nr Drury, KS	QWP	C				1960-61
07152050	Chikaskia R nr Tonkawa	QWP	CP				1948,51,53,58-63
07159680	Chisholm Ck at Village Dr, OKC	CSR				1.22	1976-78
07332470	Chuckwa Ck nr Durant	QWP	CP				1953
07158120	Cimarron R Trib nr Isabella	CS				0.62	1964-72
07158020	Cimarron R Trib nr Lone Wolf	CS				4.07	1964-75
07155000	Cimarron R abv Ute Ck nr Boise City	STR				1955.	1905-07,43-54

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07157980	Cimarron R at Freedom	STR				12706.	1973-80
07157980	Cimarron R at Freedom	QWH	CP			12706.	1953,74-80
07157980	Cimarron R at Freedom	QWMP	CNP			12706.	1976-77
07164000	Cimarron R at Mannford	STR				18849.	1939-50,59-63
07164000	Cimarron R at Mannford	QWP	CP			18849.	1950-52,60-63
07163500	Cimarron R at Oilton	CS				18669.	1964-75
07163500	Cimarron R at Oilton	STR				18669.	1934-45
07163500	Cimarron R at Oilton	QWP	CP			18669.	1944
07161000	Cimarron R at Perkins	STR		DCP	AC	17852.	1939-
07161000	Cimarron R at Perkins	QWH	BCNP			17852.	1950,53-63,69-80
07161000	Cimarron R at Perkins	QWP	BCNP		AE	17852.	1981-
07161000	Cimarron R at Perkins	QWMP	CNP			17852.	1973-77
07161000	Cimarron R at Perkins	SED	S		CAE	17852.	***1973-
07155500	Cimarron R nr Boise City	STR				2214.	1939-42
07157950	Cimarron R nr Buffalo	STR		OBS	A	12004.	1960-
07157950	Cimarron R nr Buffalo	QWD	BCNP			12004.	1953,60-63,69-79
07157950	Cimarron R nr Buffalo	QWP	BCNP		JGA	12004.	1980-
07157950	Cimarron R nr Buffalo	QWMP	CNP			12004.	1973-77
07157950	Cimarron R nr Buffalo	SED	S		A	12004.	***1973-
07157740	Cimarron R nr Buttermilk, KS	STR				11120.	1973-79
07157740	Cimarron R nr Buttermilk, KS	QWH	CP			11120.	1973-79
07159400	Cimarron R nr Crescent	STR				16453.	1970-72
07159400	Cimarron R nr Crescent	QWP	CP			16453.	1953
07159100	Cimarron R nr Dover	STR		DCP	C	15713.	1973-
07159100	Cimarron R nr Dover	QWH	CP			15713.	1951,53,74-79
07159100	Cimarron R nr Dover	QWMP	CNP			15713.	1975-79
07157580	Cimarron R nr Englewood, KS	STR			JG	10096.	1982-
07157580	Cimarron R nr Englewood, KS	QWP	CNP		JG	10096.	1982-
07157580	Cimarron R nr Englewood, KS	SED	S		JG	10096.	1982-
07156900	Cimarron R nr Forgan, KS	STR			JG	8536.	1965-
07160000	Cimarron R nr Guthrie	STR			JG	16892.	1949,53-63,83-
07160000	Cimarron R nr Guthrie	QWD	CP			16892.	1949,53-63
07160000	Cimarron R nr Guthrie	QWMP	CNP			16892.	1973-79
07160000	Cimarron R nr Guthrie	SED	S			16892.	1976
07154500	Cimarron R nr Kenton	STR			A	1106.	1950-
07154500	Cimarron R nr Kenton	QWP	CP			1106.	1952-63
07154500	Cimarron R nr Kenton	QWMP	CNP			1106.	1977
07157000	Cimarron R nr Mocane	PR				8670.	*1943-65,76-79
07157000	Cimarron R nr Mocane	QWP	CP			8670.	1947-49,52-64,76-79

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07158000	Cimarron R nr Waynoka	STR			C	13334.	1937-
07158000	Cimarron R nr Waynoka	QWH	CP			13334.	1951-63,68-79
07158000	Cimarron R nr Waynoka	QWMP	CNP			13334.	1973-77
07334800	Clear Boggy Ck abv Caney Ck nr Caney	QWMP					1975-78
07335000	Clear Boggy Ck nr Caney	STRP			C	720.	1942-
07335000	Clear Boggy Ck nr Caney	QWP	CP			720.	1952-75
07335000	Clear Boggy Ck nr Caney	QWMP	CNP			720.	1975-79
07334400	Clear Boggy Ck nr Tupelo	LF				248.	1958-73
07334400	Clear Boggy Ck nr Tupelo	QWP	COP			248.	1958,60,62
07334500	Clear Boggy Ck nr Wapanucka	STR				516.	1940-43
07234290	Clear Ck Trib nr Catesby	CS			HG	8.51	1966-
07171120	Clear Ck Trib nr Hollow	CS			HJG	2.19	1966-75,79-
07234100	Clear Ck nr Elmwood	STR		OBS	JG	170.	1965-
07234100	Clear Ck nr Elmwood	QWP	CP			170.	1952-53
07234300	Clear Ck nr May	QWP	CP			109.	1954-58,60
07229601	Clear Ck nr Norman	QWP	CP				1961
07249415	Coal Ck Trib nr Bokoshe	PR				1.26	1976-79
07249415	Coal Ck Trib nr Bokoshe	QWP	CNP			1.26	1976-79
07249415	Coal Ck Trib nr Bokoshe	SED	S			1.26	1976-79
07332900	Coal Ck nr Lehigh	STR				8.10	1978-81
07332900	Coal Ck nr Lehigh	QWH	CNOP			8.10	1977-81
07332900	Coal Ck nr Lehigh	SED	S			8.10	1976-81
07232027	Coal Ck nr McAlester	QWP	CP			196.	1960-61
07249419	Coal Ck nr Panama	CS				6.67	1976-79
07249419	Coal Ck nr Panama	QWP	CNP			6.67	1976-79
07249419	Coal Ck nr Panama	SED	S			6.67	1977-79
07246615	Coal Ck nr Spiro	STR				18.1	1978-82
07246615	Coal Ck nr Spiro	QWH	P			18.1	1978-81
07246615	Coal Ck nr Spiro	QWP	BCNP			18.1	1978-81
07246615	Coal Ck nr Spiro	SED	S			18.1	1978-81
07325800	Cobb Ck nr Eakly	STR			NG	132.	1968-
07326000	Cobb Ck nr Ft Cobb	QWP	CP			313.	**1947-58,60,63
07326000	Cobb Ck nr Ft Cobb	STR			NG	313.	1939-
07155200	Cold Springs Ck nr Castaneda	LF				129.	1965-71
07155100	Cold Springs Ck nr Wheeless	CS			NG	11.0	1964-
07233000	Coldwater Ck nr Hardesty	STR				1967.	1939-64
07233000	Coldwater Ck nr Hardesty	QWP	CP			1967.	1952-63
07232950	Coldwater Ck nr Guymon	STR			GJ		1981-
07228150	Commission Ck nr Grand	LF				57.8	1965-66
07174510	Coon Ck nr Dewey	QWP	CP				1952-53

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STATION NUMBER	STATION NAME	TYPE OF DATA	Q.W. PARA- METERS	STAGE SOURCE	COOP	DRAINAGE AREA (SQ.MI.)	PERIOD OF RECORD
07174300	Copan Lake nr Copan	RESP			C		1983-
07163020	Corral Ck nr Yale	CS				2.89	1964-65
07174150	Cotton Ck nr Copan	QWP	CP				1952-53,67-68
07174150	Cotton Ck nr Copan	QWMP	CNP				1973-79
07315680	Cottonwood Ck Trib nr Loco	CS			MG	1.74	1964-
07159805	Cottonwood Ck at Guthrie	PR				370.	1889-1956
07159750	Cottonwood Ck at Seward	STR				316.	1973-82
07159750	Cottonwood Ck at Seward	QWD	CNP			316.	1973-82
07159750	Cottonwood Ck at Seward	QWMP	CNP			316.	1975-79
07159750	Cottonwood Ck at Seward	SED	S			316.	1976-82
07159800	Cottonwood Ck nr Guthrie	LF				366.	1952-73
07159800	Cottonwood Ck nr Guthrie	QWP	CP			366.	1951
07159720	Cottonwood Ck nr Navina	STR		OBS	JG	247.	1978-80,82-
07159720	Cottonwood Ck nr Navina	QWD	COP			247.	1978-80
07159720	Cottonwood Ck nr Navina	QWP	CP		JG	247.	1981-
07159720	Cottonwood Ck nr Navina	QWP	COB		B	247.	1984
07159720	Cottonwood Ck nr Navina	SED	S		JG	247.	1982-
07237750	Cottonwood Ck nr Vici	CS			MG	11.5	1964-
07163000	Council Ck nr Stillwater	STR			JG	31.0	1934-
07163000	Council Ck nr Stillwater	QWP	CP			31.0	1944
07163000	Council Ck nr Stillwater	SED	S			31.0	1934-37
07313600	Cow Ck at Waurika	CS			JG	193.	*1967-70,71-
07313600	Cow Ck at Waurika	QWP	CP			193.	1960-63,67-70
07313600	Cow Ck at Waurika	QWMP	CNP			193.	1975-79
07313533	Cow Ck nr Comanche	QWP	CP				1959,61
07165572	Coweta Ck nr Coweta	QWP	CP				1961
07328173	Criner Ck nr Criner	QWP	CP				1961
07328200	Criner Ck nr Payne	QWP	CP				1958-60
07157500	Crooked Ck nr Nye, KS	QWP	CP			1157.	1947,58-63
07241350	Crooked Oak Ck at OKC	QWP	CNOP				1973
07241508	Crutcho Ck Trib at Reno, Midwest City	CSR				1.41	1976-81
07311420	Deadman Ck Trib at Manitou	CS				2.57	1965-72
07164940	Deep Ck nr Olive	CS				3.25	1967-72
07231102	Deep Ck nr Spaulding	QWP	CP				1961
07242215	Deep Fk Trib at Bellview Dr, OKC	QWP	CNOP				1973
07242219	Deep Fk Trib at NW 50, OKC	CSR				2.65	1976-81
07242240	Deep Fk Trib blw Northeast Lake, OKC	QWP	CNOP				1973
07242245	Deep Fk Trib nr Witcher	QWP	CNOP				1973

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07242220	Deep Fk at Eastern, OKC	CSR				28.2	1975-81
07242217	Deep Fk at Pennsylvania Ave, OKC	QWP	C				1960-62
07242200	Deep Fk at Portland, OKC	CSR				2.98	1974-81
07242380	Deep Fk at Warwick	STR		DCP	C	522.	1984-
07242380	Deep Fk at Warwick	SED	S		C	522.	1984-
07242300	Deep Fk at Witcher	QWP	CNOP				1960-62,73
07242210	Deep Fk at Youngs Blvd, OKC	QWP	CNOP				1973
07242350	Deep Fk nr Arcadia	STR		OBS	C	105.	1969-
07242350	Deep Fk nr Arcadia	QWP	CNP		C	105.	1970-
07242350	Deep Fk nr Arcadia	QWMP	CNP			105.	1973-79
07242350	Deep Fk nr Arcadia	SED	S		C	105.	1978-
07243500	Deep Fk nr Beggs	STR			C	2018.	1938-
07243500	Deep Fk nr Beggs	QWP	BCNPS		JGAE	2018.	1952-
07243500	Deep Fk nr Beggs	QWD	P	OBS	JGA	2018.	1951-
07243500	Deep Fk nr Beggs	QWMP	CNP			2018.	1973-79
07243500	Deep Fk nr Beggs	SED	S		CAE	2018.	1978-
07242400	Deep Fk nr Chandler	QWP	CP				1960-62
07244000	Deep Fk nr Dewar	STRP				2307.	1938-50
07244000	Deep Fk nr Dewar	QWD	CP			2307.	1949-51
07244200	Deep Fk nr Pierce	QWP	CP			2548.	1960-63
07242250	Deep Fk nr Witcher	QWP	CNOP				1973
07311500	Deep Red Run nr Randlett	STR			JG	617.	1949-
07311500	Deep Red Run nr Randlett	QWD	CP			617.	**1948,69-70
07311500	Deep Red Run nr Randlett	QWMP	CNP			617.	1975
07311505	Deep Red Run nr Taylor	QWP	CP			1121.	1959
07311505	Deep Red Run nr Taylor	QWMP	CNP			1121.	1976-79
07228450	Deer Ck Trib nr Hydro	CS				2.31	1964-75
07228400	Deer Ck at Hydro	STR				274.	1961-64,77-80
07228400	Deer Ck at Hydro	QWP	CNP			274.	1951-58,60-63,77-80
07159645	Deer Ck blw Deer Ck Swg Trtmt Plant, OKC	QWP	CNOP				1983-84
07232024	Deer Ck nr McAlester	STR				38.3	1978-80
07232024	Deer Ck nr McAlester	QWP	CNP			38.3	1978-80
07232024	Deer Ck nr McAlester	SED	S			38.3	1978-80
07303450	Deer Ck nr Plainview	CSR				27.8	1964-77
07150900	Deer Ck nr Tonkawa	LF				150.	1965-73
07150900	Deer Ck nr Tonkawa	QWP	CP			150.	1958-59,62
07159630	Deer Ck nr Bethany Swg Trtmt Plnt, OKC	QWP	CNOP				1983-84
07177520	Delaware Ck nr Sperry	QWP	CP				1952-53
07334440	Delaware Ck nr Wapanucka	STR				45.8	1958-73
07334440	Delaware Ck nr Wapanucka	QWP	CP			45.8	1958,60

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07315880	Demijohn Ck nr Wilson	CS				5.74	1964-73
07198500	Dirty Ck nr Warner	STRP				227.	1940-46
07198500	Dirty Ck nr Warner	QWP	CP			227.	1960-61
07178550	Dog Ck nr Claremore	LF			ZG	63.6	1979-
07175000	Double Ck SWS #5 nr Ramona	STRP				2.39	1955-69
07175000	Double Ck SWS #5 nr Ramona	QWP	CP			2.39	1954-55,**,67-69
07149411	Driftwood Ck nr Driftwood	QWP	CP				1962
07313566	Dry Ck nr Comanche	QWP	CP				1961
07243000	Dry Ck nr Kendrick	STR			A	69.0	1955-
07243000	Dry Ck nr Kendrick	QWP	COP			69.0	**1955,70-73
07307000	Dry Fk Otter Ck nr Mountain Park	STR				12.0	1905-06
07174570	Dry Hollow nr Pawhuska	CS				1.67	1965-72
07152059	Duck Ck nr Tonkawa	QWP	CP				1953,62
07234130	Duck Pond Ck nr Clear Lake	LF				97.0	1966-73
07327440	E Bitter Ck nr Tabler	QWD	CP			35.6	1960-61,68-71
07322500	E Br Sandstone Ck nr Elk City	STR				23.0	1951-72
07322500	E Br Sandstone Ck nr Elk City	QWP	CP			23.0	1958
07308890	E Cache Ck nr Apache	QWP	C				1951
07309000	E Cache Ck nr Elgin	STR				248.	1956-58
07309000	E Cache Ck nr Elgin	QWD	CP			248.	1956,58
07309000	E Cache Ck nr Elgin	QWMP	CNP			248.	1975-79
07311000	E Cache Ck nr Walters	STR			UG	675.	1938-68,69-
07311000	E Cache Ck nr Walters	QWP	CP		UG	675.	**1947-48,58-63,70-
07311000	E Cache Ck nr Walters	QWMP	CNP			675.	1975-79
07304403	E Elk Ck nr Rocky	QWP	CP				1961
07245991	E Pond Outlet to Mule Ck nr McCurtain	QWP	CP				1979-83
07245991	E Pond Outlet to Mule Ck nr McCurtain	PR					1979-83
07158105	Eagle Chief Ck at Cleo Springs	QWP	CP				1952-55
07158100	Eagle Chief Ck nr Aline	LF				406.	**1953-55,61-73
07158100	Eagle Chief Ck nr Aline	QWP	CP			406.	1953-55,58-59
07158090	Eagle Chief Ck nr Carmen	QWP	CP				1953-54
07229442	E Elm Ck nr Moore	QWP	CP				1960
07171105	E Fk Big Ck nr Hollow	QWMP	CP			14.4	1980-83
07171105	E Fk Big Ck nr Hollow	PR				14.4	1980-83
07171105	E Fk Big Ck nr Hollow	SEC	S			14.4	1980-83
07299725	Eldorado Spring nr Eldorado	QWP	CP				1950
07304107	Elk Ck nr Elk City	QWP	CP				1960

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07304500	Elk Ck nr Hobart	STR			DC	549.	**1904-08,49-
07304500	Elk Ck nr Hobart	QWP	CP		DC	549.	**1949-,54-63,70-
07304500	Elk Ck nr Hobart	QWMP	CNP			549.	1975-79
07304500	Elk Ck nr Hobart	QWD	P	OBS	DC	549.	1949-51,58-63,69-
07189000	Elk R nr Tiff City, MO	STR			LC	872.	1939-
07189000	Elk R nr Tiff City, MO	QWP	CP			872.	1948-49,51-58,60-61
07189000	Elk R nr Tiff City, MO	QWMP	CNP			872.	1973-77
07152360	Elm Ck nr Foraker	CS				18.2	1964-75
07229441	Elm Ck nr Moore	QWP	CP				1960-61
07303395	Elm Fk N Fk Red R at Salton Crossing	QWH	CP			411.	1960-61,73-79
07303500	Elm Fk N Fk Red R nr Mangum	STR				838.	**1905-08,65-76
07303500	Elm Fk N Fk Red R nr Mangum	QWH	CP			838.	**1951,1968-76
07303500	Elm Fk N Fk Red R nr Mangum	QWMP	CNP			838.	1975-79
07303420	Elm Fk N Fk Red R nr Reed	STR				579.	1978
07303420	Elm Fk N Fk Red R nr Reed	QWP	CP			579.	1978
07303406	Elm Fk N Fk Red R nr Vinson	PR				428.	1978-81
07303406	Elm Fk N Fk Red R nr Vinson	QWP	CP			428.	1978-81
07303400	Elm Fk N Fork Red R nr Carl	PR				416.	*1959-79,80-82
07303400	Elm Fk N Fork Red R nr Carl	QWP	CP			416.	1960-63,68-82
07303400	Elm Fk N Fork Red R nr Carl	QWMP	CNP			416.	1976-77
07303400	Elm Fk N Fork Red R nr Carl	SED	S			416.	1978-79
07244800	Eufaula Lake nr Brooken	RESP			C	47522.	1964-
07244800	Eufaula Lake nr Brooken	QWD	CP			47522.	1965-67
07337920	Fifteen Ck nr Glover	CS				1.23	1967-73
07328250	Finn Ck nr Payne	QWP	CP				1961
07328300	Finn Ck nr Story	QWP	CP				1951-60
07303402	Fish Ck nr Vinson	PR				31.5	1978-79
07303402	Fish Ck nr Vinson	QWP	CP			31.5	1978-79
07242109	Fish Ck nr Wetumka	QWP	CP				1960
07155510	Flagg Springs Ck Trib nr Boise City	CS				5.15	1965-72
07188140	Flint Br nr Peoria	CS			HG	4.90	1964-
07196010	Flint Ck Trib nr Flint	CS				0.94	1966-72
07196000	Flint Ck nr Kansas	STR			JG	110.	1979-
07196000	Flint Ck nr Kansas	QWP	CP			110.	1955-61,63
07196000	Flint Ck nr Kansas	QWMP	CNP			110.	1975-79
07193000	Fort Gibson Lake nr Fort Gibson	RESP		RES	C	12492.	1949-
07236500	Fort Supply Lake nr Fort Supply	RES		DCP	C	1735.	1942-
07236500	Fort Supply Lake nr Fort Supply	QWP	CP			1735.	1949,50,53

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07324300	Foss Reservoir nr Foss	RESP		RES	JG	1496.	1961-
07324300	Foss Reservoir nr Foss	QWP	CP		VG	1496.	1963-
07324300	Foss Reservoir nr Foss	QWMP	CNP			1496.	1976-77
07247500	Fourche Maline nr Red Oak	STR			JG	122.	1938-
07247500	Fourche Maline nr Red Oak	QWP	CP			122.	1952,54,56-60,63,77-78,83-84
07247500	Fourche Maline nr Red Oak	QWMP	CNP			122.	1978-79
07247450	Fourche Maline nr Wilburton	STR				56.2	1978-81
07247450	Fourche Maline nr Wilburton	QWH	P			56.2	1978-80
07247450	Fourche Maline nr Wilburton	QWP	CNP			56.2	1978-81
07247450	Fourche Maline nr Wilburton	SED	S			56.2	1978-81
07336520	Frazier Ck nr Oleta	CS			HG	19.4	1964-
07325900	Ft Cobb Reservoir nr Ft Cobb	RESP		RES	NG	304.	1959-
07325900	Ft Cobb Reservoir nr Ft Cobb	QWP	CP			304.	1960-62
07232050	Gaines Ck nr Canadian	QWP	CP				1960-62
07231955	Gaines Ck nr Higgins	PR					1978-80
07231955	Gaines Ck nr Higgins	QWP	CNP				1978-80
07232000	Gaines Ck nr Krebs	STRP				588.	1943-63
07232000	Gaines Ck nr Krebs	QWP	CP			588.	1946-47,50-51,60-62
07305302	Glenn Ck nr Cold Spring	QWP	CP				1961
07337900	Glover Ck nr Glover	STRP		DAR	C	315.	1961-
07337900	Glover Ck nr Glover	QWP	CP			315.	1949,53,62-63
07337900	Glover Ck nr Glover	QWMP	CNP			315.	1975-79
07337930	Glover R nr Broken Bow	QWP	CP				1949
07232590	Goff Ck nr Guymon	LF				510.	1964-68
07232580	Goff Ck nr Hough	LF				470.	1968-71
07152290	Greasy Ck nr Watchorn	STR		RES		28.0	1974-76
07150000	Great Salt Plains Lake nr Jet	RES		DCP	C	3200.	1941-
07150000	Great Salt Plains Lake nr Jet	QWP	CP			3200.	1950-
07149900	Great Salt Plains NADP Site nr Jet	QWP	CP		A		1984-
07194545	Greenleaf Ck nr Braggs	QWP	CP				1953-55
07194540	Greenleaf Lake nr Braggs	QWP	CP				1949,51-52
07148360	Greenwood Ck nr Winchester	LF			JG	41.2	1972-
07242090	Grief Ck nr Wetumka	QWP	CP				1962-63
07299770	Gypsum Ck nr Creta	QWP	CP				1961
07299780	Gypsum Ck nr Olustee	LF				107.	1954-57,65-73
07299780	Gypsum Ck nr Olustee	QWP	CP			107.	1955-57
07165000	Heyburn Lake nr Heyburn	RES		RES	C	123.	1950-
07165000	Heyburn Lake nr Heyburn	QWP	CP			123.	1961
07316070	Hickory Ck nr Marietta	LF				116.	1964-73
07229801	Hog Ck nr Stella	QWP	CP				1960-61

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07174720	Hogshooter Ck Trib nr Bartlesville	CS			HG	0.94	1965-
07249422	Holi-Tuska Ck nr Panama	STRP				4.39	1978-81
07249422	Holi-Tuska Ck nr Panama	QWP				4.39	1978-81
07249422	Holi-Tuska Ck nr Panama	SED	S			4.39	1978-81
07177410	Hominy Ck blw Skiatook Lk nr Skiatook	STRP			C	354.	1984-
07176950	Hominy Ck nr Hominy	QWP	CP				1950-53,56,65-66
07177000	Hominy Ck nr Skiatook	STRP				340.	1944-80
07177000	Hominy Ck nr Skiatook	QWP	CP			340.	1948-53,65-66
07177450	Hominy Ck nr Sperry	QWP	CP				1952-53
07329870	Honey Ck nr Davis	CS			HG	18.7	1964-
07329870	Honey Ck nr Davis	QWP	CP			18.7	1953,55-56
07329860	Honey Ck nr Turner Falls	QWP	CP				1949-51,54
07189720	Horse Ck Trib nr Afton	CS				0.81	1966-72
07189700	Horse Ck at Afton	CS			HG	21.9	1966-
07306000	Horse Ck nr Mountain Park	STR				11.1	1906
07163900	House Ck nr Terlton	QWP	CP			0.81	1953-55
07158140	Hoyle Ck nr Ames	QWP	CP				1952-54
07336600	Hugo Lake nr Hugo	RESP			C	1709.	1974-
07172500	Hulah Lake nr Hulah	RESP		RES	C	732.	1950-
07196380	Illinois R Trib nr Tahlequah	CS				3.59	1965-75
07198000	Illinois R nr Gore	STRP			C	1626.	1939***,48,52,54-
07198000	Illinois R nr Gore	QWP	CP		JG	1626.	1948-
07198000	Illinois R nr Gore	QWMP	CNP			1626.	1973-79
07196500	Illinois R nr Tahlequah	STR		DAR	JG	959.	1935-
07196500	Illinois R nr Tahlequah	QWP	CP			959.	1960-61
07196500	Illinois R nr Tahlequah	QWMP	CNP			959.	1975-79
07196500	Illinois R nr Tahlequah	SED	S		C	959.	1976-
07195500	Illinois R nr Watts	STR		DAR	C	635.	1955-
07195500	Illinois R nr Watts	QWP	CNP			635.	1955-61,63,69-73
07195500	Illinois R nr Watts	QWMP	CNP			635.	1975-79
07301495	Indian Ck nr Carter	CS				24.9	1965-75
07237590	Indian Ck nr Woodward	QWP	CP				1951-57
07332250	Island Bayou nr Albany	LF				132.	1965-73
07335785	Jacks Fork Ck at Sardis Lake	STRP			C		1984-
07245040	Jackson Ck nr Stigler	PR				7.33	1980-81
07245040	Jackson Ck nr Stigler	QWP	CNP			7.33	1980-81
07245040	Jackson Ck nr Stigler	SED	S			7.33	1980-81
07249400	James Fk nr Hackett, AR	STR			W	148.	1958-
07249400	James Fk nr Hackett, AR	QWP	CNP			148.	1960-61,76-81
07249400	James Fk nr Hackett, AR	SED	S			148.	1976-81

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STATION NUMBER	STATION NAME	TYPE OF DATA	Q.W. PARA- METERS	STAGE SOURCE	COOP	DRAINAGE AREA (SQ.MI.)	* PERIOD OF RECORD
07249410	James Fk nr Williams	PR				198.	1976-81
07249410	James Fk nr Williams	QWP	CNP			198.	1976-81
07249410	James Fk nr Williams	SED	S			198.	1976-81
07229420	Julian Ck Trib nr Asher	CS			HG	2.28	1964-
07149130	Kaw Lake nr Ponca City	RES		DCP	C	46530.	1977-
07153150	Keystone Lake nr Cleveland	QWP	CP				1966-74
07164200	Keystone Lake nr Sand Springs	RESP			C	74506.	1964-
07164200	Keystone Lake nr Sand Springs	QWP	CP			74506.	1965-75
07164200	Keystone Lake nr Sand Springs	QWMP	COP			74506.	1973-75
07335760	Kiamichi R Trib nr Albion	CS				1.50	1965-72
07336200	Kiamichi R nr Antlers	STRP		DAR	C	1138.	1972-
07336200	Kiamichi R nr Antlers	QWMP	CNP			1138.	1975-79
07336500	Kiamichi R nr Belzoni	STRP				1423.	1926-71
07336500	Kiamichi R nr Belzoni	QWD	CP			1423.	1948-54,62-63
07335700	Kiamichi R nr Big Cedar	STR			A	40.1	1965-
07335700	Kiamichi R nr Big Cedar	QWP	BCNPR		A	40.1	1966-
07335700	Kiamichi R nr Big Cedar	QWMP	CNP			40.1	1973-79
07335700	Kiamichi R nr Big Cedar	SED	S		CA	40.1	1974-
07335790	Kiamichi R nr Clayton	STRP			C	708.	1980-
07335790	Kiamichi R nr Clayton	QWMP	CNP			708.	1977
07336700	Kiamichi R nr Sawyer	QWP	CP				1962
07336700	Kiamichi R nr Sawyer	QWMP	CNP				1978-79
07159200	Kingfisher Ck nr Kingfisher	CS				157.	*1966-70,71-83
07159200	Kingfisher Ck nr Kingfisher	QWP	CP			157.	1959
07234250	Kiowa Ck Trib nr Laverne	CS				2.14	1964-72
07234200	Kiowa Ck nr Slapout	LF				371.	1945,49-61,63-73
07234200	Kiowa Ck nr Slapout	QWP	CP			371.	1952-58,60
07302500	Lake Altus at Lugert	RES		RES	TQG	2515.	1943-
07302500	Lake Altus at Lugert	QWP	CP			2515.	1949,50-52,55-57
07161500	Lake Carl Blackwell nr Stillwater	QWP	CP				1947,49,51,55
07325850	Lake Ck nr Eakly	STR				52.0	1969-78
07308990	Lake Ellsworth nr Elgin	RESU			UG	249.	1964-
07240000	Lake Hefner Canal nr OKC	STR			KG		1944-
07191400	Lake Hudson nr Locust Grove	RESP		RES	LG	11534.	1964-
07309500	Lake Lawtonka nr Lawton	RESU		RES	UG	93.0	1955-

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07316100	Lake Murray nr Ardmore	QWP	CP				1949-53,56-57
07190000	Lake O' The Cherokees at Langley	RES		RES	LG	10298.	1940-
07190000	Lake O' The Cherokees at Langley	QWP	CP			10298.	1948-49
07240500	Lake Overholser nr OKC	RESP		RES	XG	13221.	1937-
07241600	Lake Shawnee nr Shawnee	RESU				34.0	1957-78
07331500	Lake Texoma nr Denison, TX	RESP		RES	C	39719.	1942-
07331500	Lake Texoma nr Denison, TX	QWP	CP			39719.	1949-51
07229900	Lake Thunderbird nr Norman	RESP		RES	GM	256.	1965-
07229900	Lake Thunderbird nr Norman	QWP	CP		JGB	256.	1965-
07329880	Lawrence Spring nr Drake	QWP	CP				1953
07329880	Lawrence Spring nr Sulphur	QWP	CP				1952,55-56
07231320	Leader Ck Trib nr Atwood	CS			MG	0.72	1964-
07334420	Leader Ck at Tupelo	LF				64.3	1958-73
07334420	Leader Ck at Tupelo	QWP	CP			64.3	1958,60
07299710	Lebos Ck nr Eldorado	STR				280.	1960-64
07299710	Lebos Ck nr Eldorado	QWP	CP			280.	1952-55,58,61-63
07249800	Lee Ck nr Short	QWP	CP			236.	1958-61
07249800	Lee Ck nr Short	QWMP	CNP			236.	1976-77
07241230	Lightning Ck at SW 74, OKC	CS				3.96	1976-81
07241250	Lightning Ck at OKC	QWP	CNOP				1973
07171240	Lightning Ck nr Alluwe	QWP	CP				1952-53,59
07313000	Little Beaver Ck nr Duncan	STR				158.	1949-63
07313000	Little Beaver Ck nr Duncan	QWP	CP			158.	**1948-49,58-63
07313009	Little Beaver Ck nr Gas City	QWP	CP				1961
07312950	Little Beaver Ck nr Marlow	CS				35.4	1964-75
07190850	Little Cabin Ck nr Vinita	QWP	CP				1948-51
07174310	Little Caney R blw Copan Lake nr Copan	STRP			C		1984-
07174200	Little Caney R blw Cotton Ck nr Copan	STRP				502.	1958-80
07243450	Little Deep Fk Ck nr Edna	QWP	CP				1951-57,60-62
07328040	Little Dry Ck nr Alex	CS				0.88	1961-74
07249900	Little Lee Ck nr Short	QWMP	CNP			103.	1978-79
07310000	Little Medicine Bluff Ck nr Lawton	STR				7.00	1913-19
07337250	Little R abv Pine Ck Lake nr Wright Cty	QWMP	CNP				1976-77
07229460	Little R abv Lake Thunderbird nr Norman	QWP	BCNP		B		1983-
07338500	Little R blw Lukfata Ck nr Idabel	STRP		DAR	C	1226.	1946-
07338500	Little R blw Lukfata Ck nr Idabel	QWP	COP			1226.	1948-54,61-63,69-73
07338500	Little R blw Lukfata Ck nr Idabel	QWMP	CNP			1226.	**1947-54,76-79
07230000	Little R blw Lake Thunderbird nr Norman	STR			GM	257.	1952-
07230000	Little R blw Lake Thunderbird nr Norman	QWP	CP			257.	1953-65
07230000	Little R blw Lake Thunderbird nr Norman	QWMP	CNP			257.	1975-79

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07337150	Little R nr Alikchi	QWP	CP				1953
07230597	Little R nr Bowlegs	STR		OBS	B	550.	1983-
07230597	Little R nr Bowlegs	QWP	CNP		B	550.	1953,58,61,83-
07230597	Little R nr Bowlegs	SED	S		B	550.	1983-
07339100	Little R nr Cerrogordo	QWP	CP				1961-63
07337100	Little R nr Cloudy	QWMP	CNP			324.	1975-79
07337950	Little R nr Garvin	QWP	CP				1953
07230531	Little R nr Harjo	QWP	CP				1961
07340000	Little R nr Horatio, AR	QWMP	CNP			2674.	1978-79
07338000	Little R nr Idabel	STRP				1173.	1930-46
07338000	Little R nr Idabel	QWD	COP			1173.	1948-54
07230558	Little R nr Maud	QWP	CP				1959,61
07337650	Little R nr Millerton	QWP	CPS				1953
07229500	Little R nr Norman	STR				120.	1952-55
07229500	Little R nr Norman	QWP	CP			120.	1951-57,59,61
07337200	Little R nr Ringold	QWP	CP				1962
07231000	Little R nr Sasakwa	STR		OBS	JC	865.	1942-
07231000	Little R nr Sasakwa	QWP	CP		JC	865.	1951-
07231000	Little R nr Sasakwa	QWMP	CN			865.	1975-79
07231000	Little R nr Sasakwa	SED	S			865.	1976
07230500	Little R nr Tecumseh	STR			C	456.	1943-
07230500	Little R nr Tecumseh	QWP	CP			456.	1951-63
07230500	Little R nr Tecumseh	SED	S			456.	***1973-78
07337500	Little R nr Wright City	STRP			C	645.	1929-31,44-
07337500	Little R nr Wright City	QWP	CP			645.	1953
07337500	Little R nr Wright City	QWMP	CNP			645.	1975-76
07228280	Little Robe Ck nr Oakwood	CS				6.30	1966-72
07245119	Little Vian Ck nr Vian	QWP	CP				1960
07327500	Little Washita R at Ninnekah	STR				227.	1952-63
07327500	Little Washita R at Ninnekah	QWP	CP			227.	1953-59,61-63
07327490	Little Washita R nr Ninnekah	STRP		OBS	JC	208.	1963-
07327490	Little Washita R nr Ninnekah	QWD	CNP			208.	1948-56,69-71
07242080	Little Wewoka Ck nr Wetumka	QWP	CP				1962-63
07235700	Little Wolf Ck Trib nr Gage	CS				18.4	1964-74
07244550	Longtown Ck nr Enterprise	QWP	CP				1952-53
07188500	Lost Ck at Seneca, MO	CS				42.0	1949-59*,60-74
07188500	Lost Ck at Seneca, MO	QWP	CP			42.0	1951-58
07158010	Main Ck nr Waynoka	LF				105.	1965-73

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07232029	Mathuldy Ck nr Crowder	PR				5.41	1976-81
07232029	Mathuldy Ck nr Crowder	QWP	CNP			5.41	1976-81
07232029	Mathuldy Ck nr Crowder	SED	S			5.41	1976-81
07327449	McCardo Ck nr Cement	QWP	CP				1958-60
07333910	McGee Ck nr Farris	STR				176.	1978-82
07333910	McGee Ck nr Farris	QWH	CP			176.	1976-82
07333910	McGee Ck nr Farris	QWP	CNP			176.	1976-82
07333910	McGee Ck nr Farris	SED	S			176.	1978-81
07333800	McGee Ck nr Stringtown	CS				86.6	*1955-68,69-75
07333800	McGee Ck nr Stringtown	QWP	CP			86.6	1956-58
07310500	Medicine Bluff Ck nr Lawton	STR				101.	1913-19
07309950	Medicine Ck nr Fort Sill	QWP	CP				1951
07149302	Medicine Lodge R nr Driftwood	QWP	CP				1962
07149000	Medicine Lodge R nr Kiowa, KS	QWH	CP		W	903.	1955-57,60-62,73-
07149000	Medicine Lodge R nr Kiowa, KS	QWMP	CNP			903.	1976-77
07190625	M Fk Big Cabin Ck nr Pyramid Corners	QWMP	CP			13.4	1980-83
07190625	M Fk Big Cabin Ck nr Pyramid Corners	PR				13.4	1980-83
07190625	M Fk Big Cabin Ck nr Pyramid Corners	SED	S			13.4	1980-83
07231560	Middle Ck nr Carson	CS				7.40	1964-74
07331200	Mill Ck nr Mill Creek	LF				46.4	1952-55,58-71
07331200	Mill Ck nr Mill Creek	QWP	CP			46.4	1952-55,60
07194515	Mill Ck nr Park Hill	CS			HG	2.57	1965-
07331250	Mill Ck nr Ravia	STR				89.2	1969-71
07331250	Mill Ck nr Ravia	QWP				89.2	1969
07248620	Morris Ck at Howe	STR				19.4	1978-81
07248620	Morris Ck at Howe	QWP	CNP			19.4	1978-81
07248620	Morris Ck at Howe	SED	S			19.4	1978-81
07338780	Mountain Fk Trib nr Smithville	CS			HG	0.85	1965-
07339010	Mountain Fk blw Eagletown	QWP	CP				1961-63
07339000	Mountain Fk nr Eagletown	STRP		DAR	C	787.	1924-25,29-
07338840	Mountain Fk nr Smithville	QWMP	CNP				1976-79
07315700	Mud Ck nr Courtney	STR			JG	572.	1960-
07315700	Mud Ck nr Courtney	QWP	CP			572.	1960,62-63
07315700	Mud Ck nr Courtney	QWMP	CNP			572.	1975-79
07315697	Mud Ck nr Grady	QWP	CP				1951-52,60-61
07315691	Mud Ck nr Ringling	QWP	CP				1953
07332950	Muddy Boggy Ck at Atoka	STR				445.	1978-81
07332950	Muddy Boggy Ck at Atoka	QWP	CNP			445.	1978-81
07332950	Muddy Boggy Ck at Atoka	SED	S			445.	1978-81
07332750	Muddy Boggy Ck nr Coalgate	QWP	CP				1962

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07334000	Muddy Boggy Ck nr Farris	STRP			C	1087.	1937-
07334000	Muddy Boggy Ck nr Farris	QWP	CP			1087.	1948,50-58,62-64
07334000	Muddy Boggy Ck nr Farris	QWMP	CMP			1087.	1973-79
07332700	Muddy Boggy Ck nr Parker	LF				174.	1958-73
07335300	Muddy Boggy Ck nr Unger	STR		OBS	JG		1982-
07335300	Muddy Boggy Ck nr Unger	QWP	CP				1962
07245980	Mule Ck at SR 31 nr McCurtain	QWP	CP			3.64	1981-82
07245980	Mule Ck at SR 31 nr McCurtain	PR				3.64	1981-82
07299720	Mule Ck nr Eldorado	CS				3.84	1965-72
07245990	Mule Ck nr McCurtain	QWP	CP			6.45	1979-83
07245990	Mule Ck nr McCurtain	PR				6.45	1979-83
07245992	Mule Ck nr McCurtain	QWP	CP			6.49	1981-83
07245992	Mule Ck nr McCurtain	PR				6.49	1981-83
07245994	Mule Ck nr McCurtain	QWP	CP			6.74	1981-83
07245994	Mule Ck nr McCurtain	PR				6.74	1981-83
07160290	N Boggy Ck at Garriott Rd, Enid	STR				8.98	1975
07160290	N Boggy Ck at Garriott Rd, Enid	QWP	BCNP			8.98	1975
07333000	N Boggy Ck nr Stringtown	STR				136.	1956-59
07333000	N Boggy Ck nr Stringtown	QWP	CP			136.	1956-59
07241080	N Canadian R Trib at NW 10, OKC	CS				1.78	1975-81
07239050	N Canadian R Trib nr Eagle City	CS				0.52	1964-75
07239000	N Canadian R at Canton	STR		DCP	C	12484.	1937-
07239000	N Canadian R at Canton	QWD	CP			12484.	1951-59
07239000	N Canadian R at Canton	QWMP	CNP			12484.	1973-79
07239000	N Canadian R at Canton	SED	S			12484.	1976
07239750	N Canadian R at Morgan Rd nr Yukon	QWP	CNOP				1973
07241100	N Canadian R at Portland Ave, OKC	QWP	CNOP				1973
07241200	N Canadian R at Western Ave, OKC	QWP	CNOP				1973
07237500	N Canadian R at Woodward	STR		DCP	C	11589.	1938-
07237500	N Canadian R at Woodward	QWP	BCNP		A	11589.	**1955,61-63,75-
07237500	N Canadian R at Woodward	QWMP	CNP			11589.	1973-77
07237500	N Canadian R at Woodward	SED	S		A	11589.	1975
07241000	N Canadian R blw Lake Ovrholsr nr OKC	STR			KG	13222.	**1952-68,73-
07241000	N Canadian R blw Lake Ovrholsr nr OKC	QWD	CP			13222.	1960-61
07241000	N Canadian R blw Lake Ovrholsr nr OKC	SED	S	DCP	C	13222.	1978-
07239300	N Canadian R blw Weavers Ck nr Watonga	STR		DCP	C	12736.	1984-
07239500	N Canadian R nr El Reno	STR		BDT	KG	13042.	**1902-08,37-
07239500	N Canadian R nr El Reno	QWD	CP			13042.	**1950-51,53,74-75
07239500	N Canadian R nr El Reno	QWMP	CNP			13042.	1973-79
07239500	N Canadian R nr El Reno	SED	S			13042.	***1973-1978

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07244500	N Canadian R nr Eufaula	STR				17657.	1960-62
07244500	N Canadian R nr Eufaula	QWP	CP			17657.	1952-53,60,61
07239450	N Canadian R nr Fort Reno	QWP	BCNP				1974-75
07239450	N Canadian R nr Fort Reno	SED	S				1974-75
07241550	N Canadian R nr Harrah	STR			XG	13501.	1968-
07241550	N Canadian R nr Harrah	QWP	CNP		XG	13501.	1969-
07241550	N Canadian R nr Harrah	QWMP	CNP			13501.	1973-79
07241550	N Canadian R nr Harrah	QWD	P	OBS	XG	13501.	1968-
07241550	N Canadian R nr Harrah	SED	S		A	13501.	1983-
07241500	N Canadian R nr OKC	STR				13354.	1939-61
07241500	N Canadian R nr OKC	QWP	CP			13354.	1952,60-63
07242190	N Canadian R nr Pierce	QWP	CP				1960-63
07238000	N Canadian R nr Seiling	STR		DCP	C	12261.	1946-
07238000	N Canadian R nr Seiling	QWP	BCNPS			12261.	1953-59,*,74-75
07238000	N Canadian R nr Seiling	QWMP	CNP			12261.	1973-79
07238000	N Canadian R nr Seiling	SED	S		C	12261.	***1973-
07239200	N Canadian R nr Watonga	STR				12692.	1954-83
07239200	N Canadian R nr Watonga	SED	S			12692.	***1973-1978
07242000	N Canadian R nr Wetumka	STR		DCP	C	14290.	1937-
07242000	N Canadian R nr Wetumka	QWP	BCNP		JGA	14290.	1952,54-
07242000	N Canadian R nr Wetumka	QWMP	CNP			14290.	1973-79
07242000	N Canadian R nr Wetumka	QWD	P		JGAE	14290.	1953-
07242000	N Canadian R nr Wetumka	SED	S		AE	14290.	1977-
07239700	N Canadian R nr Yukon	PR			KG	13183.	1943-
07239700	N Canadian R nr Yukon	QWP	CP			13183.	1952-54
07241300	N Canadian at I-40, OKC	QWP	CNOP				1973
07234050	N Fk Clear Ck Trib nr Balko	CS			HG	4.22	1964-
07301500	N Fk Red R nr Carter	STR		DCP	TQG	2337.	1944-62,64-
07301500	N Fk Red R nr Carter	QWH	CNP			2337.	**1949,58-63,68-79
07301500	N Fk Red R nr Carter	QWMP	CNP			2337.	1973-79
07301450	N Fk Red R nr Erick	QWP	COP			1223.	1952,60-63
07302000	N Fk Red R nr Granite	STR				2494.	1903-08,38-44
07302000	N Fk Red R nr Granite	QWP				2494.	1905-07
07305000	N Fk Red R nr Headrick	STR			C	4244.	**1905-08,37-
07305000	N Fk Red R nr Headrick	QWH	BCNP	ORS		4244.	**1951,54-63,68-81
07305000	N Fk Red R nr Headrick	QWP	BCNP		A	4244.	1982-
07305000	N Fk Red R nr Headrick	QWMP	CNP			4244.	1973-77
07305000	N Fk Red R nr Headrick	SED	S		A	4244.	***1973-
07304000	N Fk Red R nr Lugert	STR				3435.	1930-31
07301481	N Fk Red R nr Sayre	STR				2159.	1978-83

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07301481	N Fk Red R nr Sayre	STCU		OBS	C	2159.	1984-
07301315	N Fk Red R nr Texola	QWMP	CMP			1284.	1977
07307028	N Fk Red R nr Tipton	STR		OBS	J	4681.	1983-
07307028	N Fk Red R nr Tipton	QWP	CP			4681.	1960
07303000	N Fork Red R blw Lake Altus nr Lugert	STR			TOC	2515.	**1930-32,64-
07303000	N Fork Red R blw Lake Altus nr Lugert	QWP	CP			2515.	1963
07303000	N Fork Red R blw Lake Altus nr Lugert	QWMP	CMP			2515.	1973-74
07193500	Neosho R blw Ft Gibson L nr Ft Gibson	STRP		OBS	C	12495.	1950-
07193500	Neosho R blw Ft Gibson L nr Ft Gibson	QWP	BCMP		A	12495.	1952-
07193500	Neosho R blw Ft Gibson L nr Ft Gibson	QWMP	CMP			12495.	1973-77
07193500	Neosho R blw Ft Gibson L nr Ft Gibson	SED	S		A	12495.	1973-
07191500	Neosho R nr Chouteau	STR			LG	11546.	1938-50,63-
07191500	Neosho R nr Chouteau	QWP	CP			11546.	1951-58,60
07191500	Neosho R nr Chouteau	QWMP	CMP			11546.	1973-79
07185000	Neosho R nr Commerce	STR			LG	5876.	1939-
07185000	Neosho R nr Commerce	QWP	CMP			5876.	1948-54,60-73
07185000	Neosho R nr Commerce	QWMP	CMP			5876.	1973-79
07185000	Neosho R nr Commerce	SED	S		C	5876.	1978-
07189500	Neosho R nr Grove	STR				9969.	1925-39
07190500	Neosho R nr Langley	STR			LG	10335.	1939-
07190500	Neosho R nr Langley	QWP	CP			10335.	1950-59
07190500	Neosho R nr Langley	QWMP	CMP			10335.	1973-79
07192500	Neosho R nr Wagoner	STR				12307.	1924-49
07192500	Neosho R nr Wagoner	QWP	CP			12307.	1948-50
07178620	Newt Graham L&D nr Inola	QWP	BCMP		A	8030.	1971-
07178620	Newt Graham L&D nr Inola	QWMP	CMP			8030.	1973-77
07178620	Newt Graham L&D nr Inola	SED	S		A	8030.	1974-
07312850	Nine Mile Beaver Ck nr Elgin	CSR				6.29	1964-76
07312950	Nine Mile Beaver Ck nr Elgin	CS			HG	6.29	1964-
07171300	Oologah Lake nr Oologah	RESP			C	4339.	1963-
07233200	Optima Lake nr Hardesty	RES			C	5029.	1978-
07150652	Osage Ck nr Medford	QWP	CP				1962
07306500	Otter Ck at Mountain Park	STR				164.	1946-51
07306500	Otter Ck at Mountain Park	QWP	CP			164.	1952
07307010	Otter Ck nr Snyder	QWP	CP				1951,60-63
07178580	Otter Ck nr Tiawah	CS				15.2	1966-72
07307020	Otter Ck nr Tipton	QWP	CP				1960-63

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TABLE 1.--ALPHABETICAL LISTING OF CURRENT AND HISTORICAL GAGING STATIONS MAINTAINED BY THE
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STATION NUMBER	STATION NAME	TYPE OF DATA	Q.W. PARA- METERS	STAGE SOURCE	COOP	DRAINAGE AREA (SQ.MI.)	PERIOD OF RECORD
07249100	Owl Ck nr McCurtain	STR				27.9	1978-81
07249100	Owl Ck nr McCurtain	QWP	CP			27.9	1978-81
07249100	Owl Ck nr McCurtain	SED	[illegible]			27.9	1978-81
07233700	Palo Duro Ck nr Range	LF				1745.	1951-73
07233700	Palo Duro Ck nr Range	QWP	CNP			1745.	1952-62
07231990	Peaceable Ck nr Haileyville	STR				134.	1978-82
07231990	Peaceable Ck nr Haileyville	QWP	BCNP			134.	1978-82
07231990	Peaceable Ck nr Haileyville	SED	S			134.	1978-82
07308200	Pease R nr Vernon, TX	QWP	C			3488.	1960
07246610	Pecan Ck nr Spiro	CSR				0.90	1964-76
07331300	Pennington Ck nr Reagan	LF				65.7	1951-55,58-73
07331300	Pennington Ck nr Reagan	QWP	CP			65.7	1951-55,58-59
07336780	Perry Ck nr Idabel	CS				7.53	1965-73
07237700	Persimmon Ck nr Mutual	LF				164.	1950-61,65-73
07237700	Persimmon Ck nr Mutual	QWP	CP			164.	1951,58
07337300	Pine Ck Lake nr Wright City	RESP		RES	C	635.	1969-
07231950	Pine Ck nr Higgins	CS			HG	9.99	1964-
07165500	Polecat Ck at Heyburn	STRP				123.	1943-79
07165500	Polecat Ck at Heyburn	QWP	CP			123.	1952-53,56-58,61
07165500	Polecat Ck at Heyburn	SED	S			123.	1978-79
07165510	Polecat Ck nr Jenks	QWP	COP				1960-63
07150700	Pond Ck nr Lamont	QWP	CP				1951-55,58-59,62
07232620	Pony Ck nr Optima	LF				223.	1966-71
07247000	Poteau R at Cauthron, AR	QWMP	CNP			203.	1973-75
07249000	Poteau R at Poteau	STR				1240.	1938-45
07249000	Poteau R at Poteau	QWP	CP			1240.	1944-45
07249438	Poteau R nr Braden	QWP	CP				1958-59,62-63
07249440	Poteau R nr Fort Smith, AR	QWMP	CNP				1975-77
07247350	Poteau R nr Heavener	QWMP	CNP				1976-79
07248500	Poteau R nr Wister	STRP			C	993.	1938-
07248500	Poteau R nr Wister	QWP	CP			993.	1948,52,55-59
07248500	Poteau R nr Wister	QWMP	CNP			993.	1973-79
07298500	Prairie Dog Town Fk Red R nr Brice,TX	QWP	C			5972.	1960
07158500	Preacher Ck nr Dover	CS			HG	14.5	*1951-57,64-
07158500	Preacher Ck nr Dover	QWP	CP			14.5	1952-54
07158490	Preacher Ck nr Hennessey	QWP	CP				1953
07192030	Pryor Ck at Elliot St Bridge, nr Pryor	QWP	CNP				1966-71
07192050	Pryor Ck at Hwy 69A Bridge, nr Pryor	QWP	CP				1958,62-63
07192060	Pryor Ck blw Sulphur Ck nr Pryor	QWP	CNP				1966-75

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07192000	Pryor Ck nr Pryor	STR				229.	1948-64
07192000	Pryor Ck nr Pryor	QWP	CP			229.	1948-63
07324190	Quartermaster Ck nr Hammon	QWP	CP				1970-71
07246400	R S Kerr L&D nr Sallisaw (Ark R)	QWP	CP		C	147756.	1970-
07246400	R S Kerr L&D nr Sallisaw (Ark R)	QWMP	CNP			147756.	1975-79
07325300	Rainy Mtn Ck at Mountain View	LF				309.	1951-55,58-59
07325300	Rainy Mtn Ck at Mountain View	QWP	CP			309.	1952-55,58
07153100	Ranch Ck at Cleveland Dam nr Cleveland	STR				21.9	1945-63
07153100	Ranch Ck at Cleveland Dam nr Cleveland	QWP	CP			21.9	1953
07311410	Red Ck nr Snyder	CS				6.12	1965-74
07247550	Red Oak Ck nr Red Oak	STR				13.1	1978-82
07247550	Red Oak Ck nr Red Oak	QWH	P			13.1	1980-81
07247550	Red Oak Ck nr Red Oak	QWP	CNP			13.1	1978-81
07247550	Red Oak Ck nr Red Oak	SED	S			13.1	1978-81
07335500	Red R at Arthur City, TX	STRP		DAR	C	44531.	**1936-
07335500	Red R at Arthur City, TX	QWP	CP			44531.	1960-63
07335500	Red R at Arthur City, TX	QWMP	CNP			44531.	1975-79
07331600	Red R at Denison Dam nr Denison, TX	STRP			C	39720.	1961-
07331600	Red R at Denison Dam nr Denison, TX	QWMP	CP			39720.	1973-77
07337000	Red R at Index, AR	QWD	C			48030.	1960-63
07308500	Red R nr Burkburnett, TX	QWMP	CNP			20570.	1973-77
07332000	Red R nr Colbert	STR				39777.	1924-61
07332000	Red R nr Colbert	QWP	CP			39777.	1960-61
07336820	Red R nr De Kalb, TX	QWMP	CNP			47348.	1973-77
07316000	Red R nr Gainesville, TX	STRP		BDT	C	30782.	1936-
07316000	Red R nr Gainesville, TX	QWP	COP			30782.	1953-63
07316000	Red R nr Gainesville, TX	QWMP	CNP			30782.	1973-77
07299565	Red R nr Hollis	QWMP	CNP			8154.	1977
07336760	Red R nr Millerton	QWP	CNP			40930.	1971-76
07336850	Red R nr New Boston, TX	QWP	C				1961-63
07299570	Red R nr Quanah, TX	QWMP	CNP			8321.	1973-77
07315500	Red R nr Terral	QWMP	CNP			28723.	1973-77
07336730	Red R nr Valliant	QWP	CNP			46730.	1971-76
07312720	Red R nr Waurika	QWMP	CNP				1978-79
07152350	Red Rock Ck nr Red Rock	QWP	CNP				1951-59,62-63
07329843	Rock Ck N of Sulphur	QWP	CP				1960,69
07329853	Rock Ck S of Platt N Pk nr Surphur	QWP	CP				1960
07329900	Rock Ck at Dougherty	STR				138.	1956-67
07329900	Rock Ck at Dougherty	QWD	CP			138.	1951-60

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07332070	Rock Ck nr Achille	CS				0.72	1965-74
07335310	Rock Ck nr Boswell	CS			HG	0.94	1965-
07232031	Rock Ck nr Crowder	QWP	CNP				1961
07249070	Rock Ck nr Red Oak	PR				12.0	1978-81
07249070	Rock Ck nr Red Oak	QWP	CNP			12.0	1978-81
07249070	Rock Ck nr Red Oak	SED	S			12.0	1978-81
07336710	Rock Ck nr Sawyer	CS				3.59	1964-74
07152410	Rock Ck nr Shidler	CS				9.13	1965-72
07165507	Rock Cr at Sapulpa	LF			SG	67.3	1979-
07228290	Rough Ck nr Thomas	CS			HG	10.4	1964-
07329000	Rush Ck at Purdy	STR		OBS	JC	145.	1940-53,82-
07329000	Rush Ck at Purdy	QWP	CP			145.	1947-54,58
07329500	Rush Ck nr Maysville	STR				206.	1953-76
07329500	Rush Ck nr Maysville	QWD	CP			206.	1954-71
07329500	Rush Ck nr Maysville	SED	S			206.	1976
07329500	Rush Ck nr Maysville	CS			JC	206.	1983-
07329550	Rush Ck nr Pauls Valley	QWP	CP				1952-53,58-59
07328700	Rush Ck nr Rush Springs	LF					1952
07241031	S Br T,T2 Mst'g Ck at SW 74, Mustang	CSR				0.29	1976-81
07241030	S Br T2 Mst'g Ck at SW 74, Mustang	CSR				0.54	1976-81
07191350	Salina Ck nr Salina	QWP	CP				1948-49,51-53,58-59
07245500	Sallisaw Ck nr Sallisaw	STRP				182.	1942-76
07245500	Sallisaw Ck nr Sallisaw	QWP	CP			182.	1952-63
07245500	Sallisaw Ck nr Sallisaw	QWMP	CNP			182.	1977
07158180	Salt Ck Trib nr Okeene	CS				8.23	1964-74
07171230	Salt Ck nr Alluwe	QWP	CP				1952-53,59
07230800	Salt Ck nr Dewright	STR				210.	1960-63,66-67
07230800	Salt Ck nr Dewright	QWP	CP			210.	1952-63
07158150	Salt Ck nr Hitchcock	STR				44.4	1960,68-70
07158150	Salt Ck nr Hitchcock	QWD	CP			44.4	1960,68-70
07158400	Salt Ck nr Okeene	STR				196.	1961-67,73-79
07158400	Salt Ck nr Okeene	QWH	CP			196.	1973-79
07158400	Salt Ck nr Okeene	QWMP	CNP			196.	1975-79
07158400	Salt Ck nr Okeene	SED	S			196.	1978-79
07230700	Salt Ck nr Pearson	LF				83.8	1955-56
07230700	Salt Ck nr Pearson	QWP	CNP			83.8	1956-61
07152400	Salt Ck nr Shidler	LF				114.	1954-55,58-66
07152400	Salt Ck nr Shidler	QWP	CP			114.	1950,54-55,58,61-63
07230731	Salt Ck nr St Louis	QWP	CP				1959-61

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07230651	Salt Ck nr Trousdale	QWP	CP				1961
07303404	Salt Ck nr Vinson	PR				5.64	1978-79
07303404	Salt Ck nr Vinson	QWP	CP			5.64	1978-79
07149500	Salt Fk Arkansas R nr Cherokee	STRP				2439.	1941-50
07150870	Salt Fk Arkansas R Trib nr Eddy	CS			HG	2.35	1964-
07151000	Salt Fk Arkansas R at Tonkawa	STR			C	4528.	1935-
07151000	Salt Fk Arkansas R at Tonkawa	QWH	CNP			4528.	1948,52-63,68-79
07151000	Salt Fk Arkansas R at Tonkawa	QWMP	CNP			4528.	1973-77
07148400	Salt Fk Arkansas R nr Alva	STR			C	1009.	*1938-51,76-
07148400	Salt Fk Arkansas R nr Alva	QWP	CNP			1009.	1950-54,62,76-79
07148400	Salt Fk Arkansas R nr Alva	SED	S		C	1009.	1979-
07148450	Salt Fk Arkansas R nr Ingersoll	STR				1140.	1961-62,73-79
07148450	Salt Fk Arkansas R nr Ingersoll	QWH	CNP			1140.	1961-63,73-79
07148450	Salt Fk Arkansas R nr Ingersoll	QWMP	CNP			1140.	1975-79
07148450	Salt Fk Arkansas R nr Ingersoll	SED	S			1140.	***1973-79
07150500	Salt Fk Arkansas R nr Jet	STR		DCP	C	3202.	1937-
07150500	Salt Fk Arkansas R nr Jet	QWH	CP		C	3202.	1951-63,68-
07150500	Salt Fk Arkansas R nr Jet	QWMP	CNP			3202.	1973-79
07150500	Salt Fk Arkansas R nr Jet	QWP	CNP		C	3202.	1951-63,68-
07150500	Salt Fk Arkansas R nr Jet	QWD	P	OBS	C	3202.	1954-59,61-63,68-
07150500	Salt Fk Arkansas R nr Jet	SED	S		C	3202.	***1973-
07152200	Salt Fk Arkansas R nr Marland	QWP	CNP				1960-63
07150597	Salt Fk Arkansas R nr Pond Creek	QWP	CP				1951,62
07152260	Salt Fk Arkansas R nr White Eagle	QWMP	CNP				1978-79
07148350	Salt Fk Arkansas R nr Winchester	STP			JG	856.	1959-
07148350	Salt Fk Arkansas R nr Winchester	QWD	CNP			856.	1959-62
07148350	Salt Fk Arkansas R nr Winchester	QWMP	CNP			856.	1976-77
07300500	Salt Fk Red R at Mangum	STR		OBS	JG	1566.	1938-
07300500	Salt Fk Red R at Mangum	QWP	CP			1566.	**1947-52,54,60-63
07300500	Salt Fk Red R at Mangum	QWMP	CNP			1566.	1975-79
07300500	Salt Fk Red R at Mangum	SED	S			1566.	1976-78
07301110	Salt Fk Red R nr Elmer	STR		OBS	JG	1878.	1979-
07301110	Salt Fk Red R nr Elmer	QWP	BCNP		A	1878.	1978-
07301110	Salt Fk Red R nr Elmer	SED	S		A	1878.	1978-
07300400	Salt Fk Red R nr Vinson	QWP	CP			1421.	1952-54,60-63
07300400	Salt Fk Red R nr Vinson	QWMP	CNP			1421.	1977
07300000	Salt Fk Red R nr Wellington, TX	QWMP	CNP			1222.	1976-77
07150580	Sand Ck Trib nr Kremlin	CS				7.21	1964-74
07158080	Sand Ck Trib nr Waynoka	CSR				1.61	1964-75

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07174650	Sand Ck at Bartlesville	QWP	CP				1952-53
07174600	Sand Ck at Okesa	STRP			C	139.	1959-
07174600	Sand Ck at Okesa	QWP	CP			139.	1952-55,60-62
07241880	Sand Ck nr Cromwell	CS			HG	9.48	1964-
07150548	Sand Ck nr Hawley	QWP	CP				1962
07323500	Sandstone Ck SWS 22 nr Cheyenne	STR				2.25	1953-72
07321500	Sandstone Ck SWS 3 nr Elk City	STR				0.62	1953-74
07321000	Sandstone Ck SWS 5 nr Elk City	STR				3.89	1953-74
07320500	Sandstone Ck SWS 6 nr Elk City	STR				6.46	1953-74
07322000	Sandstone Ck SWS 9 nr Elk City	STR				3.50	1952-74
07324000	Sandstone Ck SWS 1 nr Cheyenne	STR				5.33	1952-74
07324000	Sandstone Ck SWS 1 nr Cheyenne	QWP	COP			5.33	1969-70
07320000	Sandstone Ck SWS 10A nr Elk City	STR				2.87	1952-74
07318500	Sandstone Ck SWS 14 nr Cheyenne	STR				1.02	1953-74
07318000	Sandstone Ck SWS 16 nr Cheyenne	STR				11.5	1953-74
07317500	Sandstone Ck SWS 16A nr Cheyenne	STR				8.78	1952-74
07319000	Sandstone Ck SWS 17 nr Cheyenne	STR				10.1	1953-74
07319000	Sandstone Ck SWS 17 nr Cheyenne	QWP	CP			10.1	1969-70
07319500	Sandstone Ck nr Berlin	STR				44.9	1955-72
07319500	Sandstone Ck nr Berlin	QWP	CP			44.9	1958
07323000	Sandstone Ck nr Cheyenne	STR				87.1	1951-74
07323000	Sandstone Ck nr Cheyenne	QWP	CP			87.1	1951-52,57-58
07149700	Sandy Ck nr Byron	LF				434.	1965-73
07149608	Sandy Ck nr Ingersoll	QWP	CP				1962
07246000	Sans Bois Ck nr Keota	STR				346.	1938-42
07246000	Sans Bois Ck nr Keota	QWP	CP			346.	1958-63
07245703	Sans Bois Ck nr Kinta	QWP	CP				1961
07335775	Sardis Lake at Clayton	RES			C	275.	1983-
07233850	Sharp Ck Trib nr Turpin	CSR				1.00	1964-75
07301480	Short Ck nr Sayre	CS			HG	9.12	1964-
07315891	Simon Ck at Pike	QWP	CP				1960-61
07315882	Simon Ck nr Oswalt	QWP	CP				1960-61
07152990	Skedee Ck at Pawnee Lake nr Pawnee	QWP	CP				1953-56
07160500	Skeleton Ck nr Lovell	STR			JG	410.	1949-
07160500	Skeleton Ck nr Lovell	QWD	CP			410.	1951-55
07160500	Skeleton Ck nr Lovell	QWMP	CNP			410.	1975-79
07160460	Skeleton Ck nr Roxona	QWP	CP				1950
07177400	Skiatook Lake nr Skiatook	RES			C	354.	1984-

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07165550	Snake Ck nr Bixby	CS				50.0	*1951-70,71-76
07165559	Snake Ck nr Leonard	QWP	CP				1960-61
07232550	South Fk Trib nr Guymon	CS			HG	0.26	1964-
07198800	South Fk nr Porum	QWMP	CP			48.7	1980-83
07198800	South Fk nr Porum	PR				48.7	1980-83
07198800	South Fk nr Porum	SED	S			48.7	1980-83
07191223	Spavinaw Ck nr Jay	QWP	CP				1958-59,61
07191200	Spavinaw Ck nr Row	STR				128.	1959-62
07191200	Spavinaw Ck nr Row	QWP	CP			128.	1959-61
07191355	Spavinaw Ck nr Spavinaw	QWP	CP				1948-51
07191220	Spavinaw Ck nr Sycamore	STR			PG	133.	1961-
07191220	Spavinaw Ck nr Sycamore	QWMP	CNP			133.	1977
07191220	Spavinaw Ck nr Sycamore	QWP	CNP		a	133.	1966,77,80-
07327437	Spring Ck Trib nr Middleberg	QWP	C			0.76	1969-71
07159600	Spring Ck at Lansbrook Lane, OKC	CSR				3.17	1976-78
07159610	Spring Ck at N MacArthur Blvd, OKC	CSR				8.43	1976-78
07242270	Spring Ck at Pine Oak Dr, Edmond	CSR				1.32	1976-81
07229425	Spring Ck nr Ada	QWP	CP				1952-53
07327432	Spring Ck nr Blanchard	QWP	C			1.19	1968-71
07325753	Spring Ck nr Eakly	QWP	CP				1961
07242280	Spring Ck nr Edmond	QWP	CNOP				1973
07301485	Spring Ck nr Elk City	CS				0.93	1968-72
07327031	Spring Ck nr Gracemont	QWP	CP				1961
07304299	Spring Ck nr Sentinel	QWP	CP				1960
07327435	Spring Ck nr Tabler	QWP	C			2.28	1968-71
07188000	Spring R nr Quapaw	STR			LG	2510.	1939-
07188000	Spring R nr Quapaw	QWP	CP			2510.	1948-58,60-63
07188000	Spring R nr Quapaw	QWMP	CNP			2510.	1973-79
07301452	Starvation Ck nr Prentiss	LF				44.5	1964-73
07242180	Stidham Ck Trib nr Dustin	CS				2.56	1964-76
07162000	Stillwater Ck at Stillwater	STR				168.	1935-38
07162000	Stillwater Ck at Stillwater	SED				168.	1934-37
07325400	Stinking Ck nr Carnegie	LF				104.	1951-55,58-61
07325400	Stinking Ck nr Carnegie	QWP	CP			104.	1952-55,58
07327000	Sugar Ck nr Gracemont	STRP				208.	1956-74
07327000	Sugar Ck nr Gracemont	QWP	CP			208.	1956-60
07248700	Sugarloaf Ck nr Monroe	STR				53.6	1978-81
07248700	Sugarloaf Ck nr Monroe	QWP	CNP			53.6	1978-81
07248700	Sugarloaf Ck nr Monroe	SED	S			53.6	1978-81

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TABLE 1.--ALPHABETICAL LISTING OF CURRENT AND HISTORICAL GAGING STATIONS MAINTAINED BY THE U.S. GEOLOGICAL SURVEY
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STATION NUMBER	STATION NAME	TYPE OF DATA	Q.W. PARA-METERS	STAGE SOURCE	COOP	DRAINAGE AREA (SQ.MI.)	* PERIOD OF RECORD
07308310	Suttle Ck nr Davidson	LF				55.0	1965-66
07171490	Sweetwater Ck nr Claremore	QWMP	CP				1980-83
07171490	Sweetwater Ck nr Claremore	PR					1980-83
07171490	Sweetwater Ck nr Claremore	SED	S				1980-83
07301425	Sweetwater Ck nr Texas Line	QWP	CP				1953-54
07196510	Tahlequah Ck at Tahlequah	QWMP	CNP			13.4	1976-77
07245025	Taloka Ck Trib nr Stigler	PR				2.04	1979-81
07245025	Taloka Ck Trib nr Stigler	QWP	CNP			2.04	1978-81
07245025	Taloka Ck Trib nr Stigler	SED	S			2.04	1979-81
07245020	Taloka Ck at Stigler	PR				3.98	1978-81
07245020	Taloka Ck at Stigler	QWP	CNP			3.98	1978-81
07245020	Taloka Ck at Stigler	SED	S			3.98	1978-81
07245030	Taloka Ck nr Stigler	STR				20.1	1978-81
07245030	Taloka Ck nr Stigler	QWP	CNP			20.1	1978-81
07245030	Taloka Ck nr Stigler	SED	S			20.1	1978-81
07185095	Tar Ck at 22nd St Bridge at Miami	STR			JG	44.8	1984-
07185100	Tar Ck at Miami	STR				52.0	1980-84
07197500	Tenkiller Ferry Lake nr Gore	RESP		RES	C	1610.	1952-
07336000	Tenmile Ck nr Miller	CS			HG	68.0	1957-70,71-
07336000	Tenmile Ck nr Miller	QWP	C			68.0	1955-58
07232450	Tepee Ck nr Eva	LF				95.0	1967-73
07154650	Tesesquite Ck nr Kenton	CS			HG	25.4	1964-
07231962	Ti Ck abv unnamed Trib nr Blanco	CS				1.83	1980-81
07231962	Ti Ck abv unnamed Trib nr Blanco	QWP	CNOP			1.83	1980-81
07231965	Ti Ck nr Blanco	STR				4.82	1980-81
07231965	Ti Ck nr Blanco	QWP	BCNP			4.82	1980-81
07231965	Ti Ck nr Blanco	SED	S			4.82	1980-81
07326720	Tonkawa Ck nr Anadarko	QWD	CP			26.0	1968-71
07158550	Turkey Ck Trib nr Goltry	CSR			HG	5.08	1964-81
07301100	Turkey Ck at Olustee	STR				293.	1960-64
07301100	Turkey Ck at Olustee	QWP	CP			293.	1952,54-57,61-63
07148379	Turkey Ck nr Alva	QWP	CNP				1962
07228220	Turkey Ck nr Camargo	LF				86.0	1965-73
07159203	Turkey Ck nr Dover	QWP	CP				1952-54,62
07159000	Turkey Ck nr Drummond	CS				248.	1948-70,71-74
07159000	Turkey Ck nr Drummond	QWP	CP			248.	1948,52-59
07301455	Turkey Ck nr Erick	CS			HG	19.8	1964-
07301455	Turkey Ck nr Erick	QWP	CP			19.8	1953
07159040	Turkey Ck nr Hennessey	QWP	CP				1951

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07301000	Turkey Ck nr Olustee	STR				244.	1905-08
07301460	Turkey Ck nr Sayre	LF				47.5	1953-56,65-73
07301460	Turkey Ck nr Sayre	QWP	CP			47.5	1953
07241210	Twin Ck at SW 29, OKC	CSR				3.35	1976-81
07178500	Verdigris R nr Catoosa	STR				7709.	1903-05
07176000	Verdigris R nr Claremore	STRP		TMK	C	6534.	1935-
07176000	Verdigris R nr Claremore	QWD	CP			6534.	1948-54,59
07176000	Verdigris R nr Claremore	QWMP	CNP			6534.	1978-79
07178600	Verdigris R nr Inola	STRP				7911.	1945-70
07178600	Verdigris R nr Inola	QWP	BCNP			7911.	1948-72
07178600	Verdigris R nr Inola	QWMP	CNP			7911.	1977
07178600	Verdigris R nr Inola	SED	S			7911.	1948-72
07171000	Verdigris R nr Lenapah	STRP		DAR	C	3639.	1938-
07171000	Verdigris R nr Lenapah	QWP	CP			3639.	1945,52-64
07171000	Verdigris R nr Lenapah	QWMP	CNP			3639.	1973-79
07171100	Verdigris R nr Nowata	QWP	CP				1952-53
07178670	Verdigris R nr Okay	QWP	CP			8296.	1952-53,60-63
07171400	Verdigris R nr Oologah	STRP			C	4339.	1961-
07171400	Verdigris R nr Oologah	QWP	CP			4339.	1962-63,65-75
07171400	Verdigris R nr Oologah	QWMP	CNP			4339.	1973-79
07171500	Verdigris R nr Sageeyah	STRP				4402.	1939-45
07170950	Verdigris R nr South Coffeyville	QWP	CP			4339.	1952-53
07171260	Verdigris R nr Talala	QWP	CP				1952-53
07171405	Verdigris R, Hwy 88 Br, nr Claremore	QWD	CP				1952-53,59
07245090	Vian Ck nr Vian	CS				19.6	1966-72
07245090	Vian Ck nr Vian	QWP	CP			19.6	1958-59
07160550	W Beaver Ck nr Orlando	CSR				13.9	1964-76
07160550	W Beaver Ck nr Orlando	CS			HG	13.9	1964-
07327420	W Bitter Ck nr Tabler	QWD	CP			60.8	**1953,61,65-71
07311240	W Cache Ck nr Cookietown	LF				1112.	1951-55,65-73
07311240	W Cache Ck nr Cookietown	QWP	CP			1112.	1952-55,60-63
07190620	W Fk Big Cabin Ck nr Centralia	QWMP	CP			13.1	1980-83
07190620	W Fk Big Cabin Ck nr Centralia	PR				13.1	1980-83
07190620	W Fk Big Cabin Ck nr Centralia	SED	S			13.1	1980-83
07162500	W Fk Brush Ck nr Stillwater	STR				13.1	1935-38
07162500	W Fk Brush Ck nr Stillwater	SED	S			13.1	1934-37
07315672	W Mud Ck nr Atlee	QWP	CP				1961
07315681	W Mud Ck nr Ringling	QWP	CP				1960
07305198	W Otter Ck at Cold Spring	QWP	CP				1961
07305500	W Otter Ck at Snyder Lake nr Mt Park	STR			D	132.	1903-08,51-

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07305500	W Otter Ck at Snyder Lake nr Mt Park	QWP	CP			132.	1960
07327320	W Salt Ck nr Chickasha	QWD	COP			22.0	1968-71
07313211	Walker Ck nr Corum	QWP	CP				1961
07315900	Walnut Bayou nr Burneyville	STR				314.	1961-64,69-71
07315900	Walnut Bayou nr Burneyville	QWD	CP			314.	1960-62,69-71
07315900	Walnut Bayou nr Burneyville	QWMP	CNP			314.	1975-79
07315873	Walnut Bayou nr Oswalt	QWP	CP				1960
07229300	Walnut Ck at Purcell	STR			JG	202.	1965-
07229300	Walnut Ck at Purcell	QWP	CP			202.	1950-55,58-62
07229300	Walnut Ck at Purcell	QWMP	CNP			202.	1976-77
07229220	Walnut Ck nr Blanchard	CS				1.26	1964-72
07147800	Walnut R at Winfield, KS	QWP	C			1872.	1960-61
07316410	Washita R Trib nr Crawford	CS				2.18	1965-72
07328100	Washita R at Alex	STRP		OBS	JG	4787.	1964-
07328100	Washita R at Alex	QWD	CP			4787.	1965-71
07326500	Washita R at Anadarko	STRP			JG	3656.	**1902-08,63-
07326500	Washita R at Anadarko	QWD	CP			3656.	1952,65-71
07326500	Washita R at Anadarko	QWMP	CNP			3656.	1975-79
07325500	Washita R at Carnegie	STR			JG	3129.	1937-
07325500	Washita R at Carnegie	QWP	CNP	OBS	VG	3129.	1948-
07325500	Washita R at Carnegie	QWMP	CNP			3129.	1973-75
07330000	Washita R nr Berwyn	STR				6815.	1924-26
07324109	Washita R nr Butler	QW					1961
07316500	Washita R nr Cheyenne	STR		OBS	JG	794.	1937-
07316500	Washita R nr Cheyenne	QWP	CNP			794.	1950-53,60-61,69-73
07316500	Washita R nr Cheyenne	QWMP	CNP			794.	1973-75
07327300	Washita R nr Chickasha	QWP	CP				1952-53,55,58-61
07325000	Washita R nr Clinton	STR			C	1977.	1935-
07325000	Washita R nr Clinton	QWP	CP			1977.	1953,58,60-63
07331000	Washita R nr Dickson	STR		OBS	A	7202.	1928-
07331000	Washita R nr Dickson	QWD	BCNPS			7202.	1944-81
07331000	Washita R nr Dickson	QWP	BCNP		AE	7202.	1982-
07331000	Washita R nr Dickson	QWMP	CNP			7202.	1973-77
07331000	Washita R nr Dickson	SED	S		CAE	7202.	***1973-
07324400	Washita R nr Foss	STR			VG	1551.	**1956-57,61-
07324400	Washita R nr Foss	QWP	CNP	OBS	VG	1551.	**1947-48,70-
07324400	Washita R nr Foss	QWMP	CNP			1551.	1973-79
07324200	Washita R nr Hammon	STR			VG	1387.	1969-
07324200	Washita R nr Hammon	QWP	CNP	OBS	VG	1387.	1961,70-
07324200	Washita R nr Hammon	QWMP	CNP			1387.	1978-79

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07324150	Washita R nr Moorewood	QWP	CP				1970-72
07328500	Washita R nr Pauls Valley	STR		OBS	JG	5330.	1937-
07328500	Washita R nr Pauls Valley	QWP	COP			5330.	1952-63
07328500	Washita R nr Pauls Valley	QWMP	CNP			5330.	1975-79
07328500	Washita R nr Pauls Valley	SED	S			5330.	1976-78
07316350	Washita R nr Reydon	QWP	CP			4.98	1949,52
07316350	Washita R nr Reydon	QWMP	CNP			4.98	1977
07328000	Washita R nr Tabler	STR				4706.	1940-52
07328000	Washita R nr Tabler	QWD	CP			4706.	1947-52
07313400	Waurika Lake nr Waurika	RESP			C	562.	1978-
07149709	West Clay Ck nr Yewed	QWP	CP				1962
07157550	West Fk nr Knowles	CSR				4.22	1964-76
07157550	West Fk nr Knowles	CS			HG	4.22	1964-
07242100	Wewoka Ck nr Wetumka	STR				396.	1960-63,66-67
07242100	Wewoka Ck nr Wetumka	QWP	CP			396.	1952-57,60-64
07242050	Wewoka Ck nr Wewoka	QWP	CP				1962-63
07150590	Wild Horse (Sand) Ck nr Pond Creek	LF				105.	1965-72
07242370	Wildhorse Ck Trib nr Luther	CSR				2.12	1974-76
07242370	Wildhorse Ck Trib nr Luther	CS			JG	2.12	1974-
07329660	Wildhorse Ck nr Hennepin	QWP	CP				1949-50
07329700	Wildhorse Ck nr Hoover	LF				603.	1944,51-69
07329700	Wildhorse Ck nr Hoover	STR			JG	604.	1969-
07329700	Wildhorse Ck nr Hoover	QWD	CP			604.	1951-59,*,70-71
07325860	Willow Ck nr Albert	STR				28.0	1970-78
07316130	Wilson Ck Trib nr McMillan	CS				2.97	1965-75
07328070	Winter Ck nr Alex	STRP			JG	33.0	1964-
07248000	Wister Lake nr Wister	RESP		RES	C	993.	1949-
07248000	Wister Lake nr Wister	QWP	CP			993.	1960-64
07236050	Wolf Ck Trib nr Tangier	CS				6.23	1964-72
07236000	Wolf Ck nr Fargo	STR				1624.	1942-76
07236000	Wolf Ck nr Fargo	QWP	CP			1624.	1958,60-63
07236000	Wolf Ck nr Fargo	SED	S			1624.	***1973-76
07237000	Wolf Ck nr Fort Supply	STR		OBS	C	1739.	1937-
07237000	Wolf Ck nr Fort Supply	QWP	CP			1739.	1951-58,60
07237000	Wolf Ck nr Fort Supply	SED	S			1739.	1976
07189480	Wolf Ck nr Grove	LF				7.21	1966-72
07235500	Wolf Ck nr Shattuck	STRP				1183.	1938-46
07228930	Worley Ck nr Tuttle	CS			HG	11.2	1965-72,75-
07338520	Yanubbee Ck nr Broken Bow	CSR				9.10	1964-76
07338520	Yanubbee Ck nr Broken Bow	CS			JG	2.12	1964-

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07146500	Arkansas R at Arkansas City, KS	STRP				43713.	1955-76
07146500	Arkansas R at Arkansas City, KS	QWD	CNP	BDT	W	43713.	1952-
07146500	Arkansas R at Arkansas City, KS	QWMP	CNP			43713.	1972-75
07147800	Walnut R at Winfield, KS	QWP	C			1872.	1960-61
07148126	Beaver Ck nr Kaw City	QWP	COP				1950,54-55
07148128	Arkansas R at Kaw City	QWD	CNP			8670.	1949-51
07148130	Kaw Lake nr Ponca City	RES		DCP	C	46530.	1977-
07148140	Arkansas R nr Ponca City	STR			C	46530.	1977-
07148140	Arkansas R nr Ponca City	QWMP	CNP			46530.	1978-79
07148140	Arkansas R nr Ponca City	SED	S		C	46530.	1978-
07148350	Salt Fk Arkansas R nr Winchester	STR			JG	856.	1959-
07148350	Salt Fk Arkansas R nr Winchester	QWD	CNP			856.	1959-62
07148350	Salt Fk Arkansas R nr Winchester	QWMP	CNP			856.	1976-77
07148360	Greenwood Ck nr Winchester	LF			JG	41.2	1972-
07148379	Turkey Ck nr Alva	QWP	CNP				1962
07148400	Salt Fk Arkansas R nr Alva	STR			C	1009.	*1938-51,76-
07148400	Salt Fk Arkansas R nr Alva	QWP	CNP			1009.	1950-54,62,76-79
07148400	Salt Fk Arkansas R nr Alva	SED	S		C	1009.	1979-
07148450	Salt Fk Arkansas R nr Ingersoll	STR				1140.	1961-62,73-79
07148450	Salt Fk Arkansas R nr Ingersoll	QWH	CNP			1140.	1961-63,73-79
07148450	Salt Fk Arkansas R nr Ingersoll	QWMP	CNP			1140.	1975-79
07148450	Salt Fk Arkansas R nr Ingersoll	SED	S			1140.	***1973-79
07149000	Medicine Lodge R nr Kiowa, KS	QWH	CP		W	903.	1955-57,60-62,73-
07149000	Medicine Lodge R nr Kiowa, KS	QWMP	CNP			903.	1976-77
07149302	Medicine Lodge R nr Driftwood	QWP	CP				1962
07149411	Driftwood Ck nr Driftwood	QWP	CP				1962
07149500	Salt Fk Arkansas R nr Cherokee	STRP				2439.	1941-50
07149608	Sandy Ck nr Ingersoll	QWP	CP				1962
07149700	Sandy Ck nr Byron	LF				434.	1965-73
07149709	West Clay Ck nr Yewed	QWP	CP				1962
07149900	Great Salt Plains NADP Site nr Jet	QWP	CP		A		1984-
07150000	Great Salt Plains Lake nr Jet	RES		DCP	C	3200.	1941-
07150000	Great Salt Plains Lake nr Jet	QWP	CP			3200.	1950-
07150500	Salt Fk Arkansas R nr Jet	STR		DCP	C	3202.	1937-
07150500	Salt Fk Arkansas R nr Jet	QWH	CP		C	3202.	1951-63,68-
07150500	Salt Fk Arkansas R nr Jet	QWMP	CNP			3202.	1973-79
07150500	Salt Fk Arkansas R nr Jet	QWP	CNP		C	3202.	1951-63,68-

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07150500	Salt Fk Arkansas R nr Jet	QWD	P	OBS	C	3202.	1954-59,61-63,68-
07150500	Salt Fk Arkansas R nr Jet	SED	S		C	3202.	***1973-
07150548	Sand Ck nr Hawley	QWP	CP				1962
07150580	Sand Ck Trib nr Kremlin	CS				7.21	1964-74
07150590	Wild Horse (Sand) Ck nr Pond Creek	LF				105.	1965-72
07150597	Salt Fk Arkansas R nr Pond Creek	QWP	CP				1951,62
07150652	Osage Ck nr Medford	QWP	CP				1962
07150700	Pond Ck nr Lamont	QWP	CP				1951-55,58-59,62
07150870	Salt Fk Arkansas R Trib nr Eddy	CS			HG	2.35	1964-
07150900	Deer Ck nr Tonkawa	LF				150.	1965-73
07150900	Deer Ck nr Tonkawa	QWP	CP			150.	1958-59,62
07151000	Salt Fk Arkansas R at Tonkawa	STR			C	4528.	1935-
07151000	Salt Fk Arkansas R at Tonkawa	QWH	CNP			4528.	1948,52-63,68-79
07151000	Salt Fk Arkansas R at Tonkawa	QWMP	CNP			4528.	1973-77
07151550	Chikaskia R nr Drury, KS	QWP	C				1960-61
07151900	Chikaskia R nr Braman	QWMP	CNP			1510.	1977
07151903	Chikaskia R blw Braman Lake nr Braman	QWP	CP				1958,59,62
07152000	Chikaskia R nr Blackwell	STR		DCP	JGC	1859.	1935-
07152000	Chikaskia R nr Blackwell	QWP	CP			1859.	1952-63
07152000	Chikaskia R nr Blackwell	QWMP	CNP			1859.	1975-79
07152050	Chikaskia R nr Tonkawa	QWP	CP				1948,51,53,58-63
07152059	Duck Ck nr Tonkawa	QWP	CP				1953,62
07152200	Salt Fk Arkansas R nr Marland	QWP	CNP				1960-63
07152250	Bois D'Arc Ck nr Ponca City	QWP	CP			100.	1953,58-63
07152250	Bois D'Arc Ck nr Ponca City	LF				100.	1965-73
07152260	Salt Fk Arkansas R nr White Eagle	QWMP	CNP				1978-79
07152290	Greasy Ck nr Watchorn	STR		RES		28.0	1974-76
07152350	Red Rock Ck nr Red Rock	QWP	CNP				1951-59,62-63
07152360	Elm Ck nr Foraker	CS				18.2	1964-75
07152380	Beaver Ck (E Br) nr Grainola	QWP	CP				1950
07152400	Salt Ck nr Shidler	LF				114.	1954-55,58-66
07152400	Salt Ck nr Shidler	QWP	CP			114.	1950,54-55,58,61-63
07152410	Rock Ck nr Shidler	CS				9.13	1965-72
07152500	Arkansas R at Ralston	STR		DCP	C	54465.	1925-
07152500	Arkansas R at Ralston	QWH	BCNP			54465.	1950-63,65-80
07152500	Arkansas R at Ralston	QWMP	CNP			54465.	1973-79
07152500	Arkansas R at Ralston	QWP	BCNP		CAE	54465.	1981-

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07152500	Arkansas R at Ralston	QWD	P	OBS	CA	54465.	1950-63,68-
07152500	Arkansas R at Ralston	SED	S		CAE	54465.	***1973-
07152520	Black Bear Ck Trib nr Garber	CS				0.97	1964-75
07152520	Black Bear Ck Trib nr Garber	QWP	CP			0.97	1958-59
07152590	Black Bear Ck nr Perry	QWP	CP				1950,58-59
07152950	Black Bear Ck nr Morrison	QWP	CP				1951,58-59
07152990	Skedee Ck at Pawnee Lake nr Pawnee	QWP	CP				1953-56
07153000	Black Bear Ck at Pawnee	STR		DCP	C	576.	1944-
07153000	Black Bear Ck at Pawnee	QWP	CP			576.	1952-53,56-59,61-71
07153000	Black Bear Ck at Pawnee	QWMP	CNP			576.	1978-79
07153000	Black Bear Ck at Pawnee	SED	S		C	576.	1978-
07153100	Ranch Ck at Cleveland Dam nr Cleveland	STR				21.9	1945-63
07153100	Ranch Ck at Cleveland Dam nr Cleveland	QWP	CP			21.9	1953
07153150	Keystone Lake nr Cleveland	QWP	CP				1966-74
07154400	Carrizozo Ck nr Kenton	CS				111.	1953-70
07154500	Cimarron R nr Kenton	STR			A	1106.	1950-
07154500	Cimarron R nr Kenton	QWP	CP			1106.	1952-63
07154500	Cimarron R nr Kenton	QWMP	CNP			1106.	1977
07154650	Tesesquite Ck nr Kenton	CS			HG	25.4	1964-
07155000	Cimarron R abv Ute Ck nr Boise City	STR				1955.	1905-07,43-54
07155100	Cold Springs Ck nr Wheeless	CS			HG	11.0	1964-
07155200	Cold Springs Ck nr Castaneda	LF				129.	1965-71
07155500	Cimarron R nr Boise City	STR				2214.	1939-42
07155510	Flagg Springs Ck Trib nr Boise City	CS				5.15	1965-72
07156900	Cimarron R nr Forgan, KS	STR			JG	8536.	1965-
07157000	Cimarron R nr Mocane	PR				8670.	*1943-65,76-79
07157000	Cimarron R nr Mocane	QWP	CP			8670.	1947-49,52-64,76-79
07157500	Crooked Ck nr Nye, KS	QWP	CP			1157.	1947,58-63
07157550	West Fk nr Knowles	CSR				4.22	1964-76
07157550	West Fk nr Knowles	CS			HG	4.22	1964-
07157580	Cimarron R nr Englewood, KS	STR			JG	10096.	1982-
07157580	Cimarron R nr Englewood, KS	QWP	CNP		JG	10096.	1982-
07157580	Cimarron R nr Englewood, KS	SED	S		JG	10096.	1982-
07157740	Cimarron R nr Buttermilk, KS	STR				11120.	1973-79
07157740	Cimarron R nr Buttermilk, KS	QWH	CP			11120.	1973-79
07157940	Bluff Ck nr Buttermilk, KS	STR				657.	1973-79
07157940	Bluff Ck nr Buttermilk, KS	QWH	CP			657.	1973-79
07157950	Cimarron R nr Buffalo	STR		OBS	A	12004.	1960-
07157950	Cimarron R nr Buffalo	QWD	BCNP			12004.	1953,60-63,68-79

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07157950	Cimarron R nr Buffalo	QWP	BCNP		JGA	12004.	1980-
07157950	Cimarron R nr Buffalo	QWMP	CNP			12004.	1973-77
07157950	Cimarron R nr Buffalo	SED	S		A	12004.	***1973-
07157960	Buffalo Ck nr Lovedale	STR			JG	408.	1956-
07157960	Buffalo Ck nr Lovedale	QWH	CP			408.	1974-79
07157960	Buffalo Ck nr Lovedale	QWMP	CNP			408.	1975-79
07157960	Buffalo Ck nr Lovedale	SED	S			408.	1978-79
07157980	Cimarron R at Freedom	STR				12706.	1973-80
07157980	Cimarron R at Freedom	QWH	CP			12706.	1953,74-80
07157980	Cimarron R at Freedom	QWMP	CNP			12706.	1976-77
07158000	Cimarron R nr Waynoka	STR			C	13334.	1937-
07158000	Cimarron R nr Waynoka	QWH	CP			13334.	1951-63,68-79
07158000	Cimarron R nr Waynoka	QWMP	CNP			13334.	1973-77
07158010	Main Ck nr Waynoka	LF				105.	1965-73
07158020	Cimarron R Trib nr Lone Wolf	CS				4.07	1964-75
07158080	Sand Ck Trib nr Waynoka	CSR				1.61	1964-75
07158090	Eagle Chief Ck nr Carmen	QWP	CP				1953-54
07158100	Eagle Chief Ck nr Aline	LF				406.	**1953-55,61-73
07158100	Eagle Chief Ck nr Aline	QWP	CP			406.	1953-55,58-59
07158105	Eagle Chief Ck at Cleo Springs	QWP	CP				1952-55
07158120	Cimarron R Trib nr Isabella	CS				0.62	1964-72
07158140	Hoyle Ck nr Ames	QWP	CP				1952-54
07158150	Salt Ck nr Hitchcock	STR				44.4	1960,68-70
07158150	Salt Ck nr Hitchcock	QWD	CP			44.4	1960,68-70
07158180	Salt Ck Trib nr Okeene	CS				8.23	1964-74
07158400	Salt Ck nr Okeene	STR				196.	1961-67,73-79
07158400	Salt Ck nr Okeene	QWH	CP			196.	1973-79
07158400	Salt Ck nr Okeene	QWMP	CNP			196.	1975-79
07158400	Salt Ck nr Okeene	SED	S			196.	1978-79
07158490	Preacher Ck nr Hennessey	QWP	CP				1953
07158500	Preacher Ck nr Dover	CS			HG	14.5	*1951-57,64-
07158500	Preacher Ck nr Dover	QWP	CP			14.5	1952-54
07158550	Turkey Ck Trib nr Goltry	CSR			HG	5.08	1964-81
07159000	Turkey Ck nr Drummond	CS				248.	1948-70,71-74
07159000	Turkey Ck nr Drummond	QWP	CP			248.	1948,52-59
07159040	Turkey Ck nr Hennessey	QWP	CP				1951
07159100	Cimarron R nr Dover	STR		DCP	C	15713.	1973-
07159100	Cimarron R nr Dover	QWH	CP			15713.	1951,53,74-79
07159100	Cimarron R nr Dover	QWMP	CNP			15713.	1975-79

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07159200	Kingfisher Ck nr Kingfisher	CS				157.	*1966-70,71-83
07159200	Kingfisher Ck nr Kingfisher	QWP	CP			157.	1959
07159203	Turkey Ck nr Dover	QWP	CP				1952-54,62
07159400	Cimarron R nr Crescent	STR				16453.	1970-72
07159400	Cimarron R nr Crescent	QWP	CP			16453.	1953
07159450	Bluff Ck at OKC	CS				1.64	1974-78
07159500	Bluff Ck abv Lake Hefner nr OKC	STR				1.62	1950-58
07159600	Spring Ck at Lansbrook Lane, OKC	CSR				3.17	1976-78
07159610	Spring Ck at N MacArthur Blvd, OKC	CSR				8.43	1976-78
07159630	Deer Ck abv Bethany Swg Trtmt Plnt, OKC	QWP	CNOP				1983-84
07159640	Bluff Ck blw Bethany Swg Trtmt Plnt, OKC	QWP	CNOP				1983-84
07159645	Deer Ck blw Deer Ck Swg Trtmt Plnt, OKC	QWP	CNOP				1983-84
07159680	Chisholm Ck at Village Dr, OKC	CSR				1.22	1976-78
07159720	Cottonwood Ck nr Navina	STR		OBS	JG	247.	1978-80,82-
07159720	Cottonwood Ck nr Navina	QWD	COP			247.	1978-80
07159720	Cottonwood Ck nr Navina	QWP	CP		JG	247.	1981-
07159720	Cottonwood Ck nr Navina	QWP	COB		B	247.	1984
07159720	Cottonwood Ck nr Navina	SED	S		JG	247.	1982-
07159750	Cottonwood Ck at Seward	STR				316.	1973-82
07159750	Cottonwood Ck at Seward	QWD	CNP			316.	1973-82
07159750	Cottonwood Ck at Seward	QWMP	CNP			316.	1975-79
07159750	Cottonwood Ck at Seward	SED	S			316.	1978-82
07159800	Cottonwood Ck nr Guthrie	LF				366.	1952-73
07159800	Cottonwood Ck nr Guthrie	QWP	CP			366.	1951
07159805	Cottonwood Ck at Guthrie	PR				370.	1889-1956
07160000	Cimarron R nr Guthrie	STR			JG	16892.	1949,53-63,83-
07160000	Cimarron R nr Guthrie	QWD	CP			16892.	1949,53-63
07160000	Cimarron R nr Guthrie	QWMP	CNP			16892.	1973-79
07160000	Cimarron R nr Guthrie	SED	S			16892.	1976
07160280	Boggy Ck at Enid Ave, Enid	STR				20.8	1975
07160280	Boggy Ck at Enid Ave, Enid	QWP	BCNP			20.8	1975
07160290	N Boggy Ck at Garriott Rd, Enid	STR				8.98	1975
07160290	N Boggy Ck at Garriott Rd, Enid	QWP	BCNP			8.98	1975
07160300	Boggy Ck at 30th St, Enid	STR				35.8	1975
07160300	Boggy Ck at 30th St, Enid	QWD	BCNP			35.8	1975
07160310	Boggy Ck Trib at Garriott Rd, Enid	QWP	BCNP				1975
07160315	Boggy Ck abv Swg Trtmt Plnt, Enid	QWP	BCNP				1975
07160320	Boggy Ck blw Swg Trtmt Plnt, Enid	QWP	BCNP				1975
07160460	Skeleton Ck nr Roxona	QWP	CP				1950

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07160500	Skeleton Ck nr Lovell	STR			JG	410.	1949-
07160500	Skeleton Ck nr Lovell	QWD	CP			410.	1951-55
07160500	Skeleton Ck nr Lovell	QWMP	CNP			410.	1975-79
07160550	W Beaver Ck nr Orlando	CSR				13.9	1964-76
07160550	W Beaver Ck nr Orlando	CS			HG	13.9	1964-
07161000	Cimarron R at Perkins	STR		DCP	AC	17852.	1939-
07161000	Cimarron R at Perkins	QWH	BCNP		A	17852.	1950,53-63,69-80
07161000	Cimarron R at Perkins	QWP	BCNP		AE	17852.	1981-
07161000	Cimarron R at Perkins	QWMP	CNP			17852.	1973-77
07161000	Cimarron R at Perkins	SED	S		CAE	17852.	***1973-
07161500	Lake Carl Blackwell nr Stillwater	QWP	CP				1947,49,51,55
07162000	Stillwater Ck at Stillwater	STR				168.	1935-38
07162000	Stillwater Ck at Stillwater	SED	S			168.	1934-37
07162500	W Fk Brush Ck nr Stillwater	STR				13.1	1935-38
07162500	W Fk Brush Ck nr Stillwater	SED	S			13.1	1934-37
07163000	Council Ck nr Stillwater	STR			JG	31.0	1934-
07163000	Council Ck nr Stillwater	QWP	CP			31.0	1944
07163000	Council Ck nr Stillwater	SED	S			31.0	1934-37
07163020	Corral Ck nr Yale	CS				2.89	1964-65
07163500	Cimarron R at Oilton	CS				18669.	1964-75
07163500	Cimarron R at Oilton	STR				18669.	1934-45
07163500	Cimarron R at Oilton	QWP	CP			18669.	1944
07163900	House Ck nr Terlton	QWP	CP			0.81	1953-55
07164000	Cimarron R at Mannford	STR				18849.	1939-50,59-63
07164000	Cimarron R at Mannford	QWP	CP			18849.	1950-52,60-63
07164200	Keystone Lake nr Sand Springs	RESP			C	74506.	1964-
07164200	Keystone Lake nr Sand Springs	QWP	CP			74506.	1965-75
07164200	Keystone Lake nr Sand Springs	QWMP	COP			74506.	1973-75
07164400	Arkansas R Sand Springs Br nr Tulsa	QWH	BCNP			74615.	1946-77
07164400	Arkansas R Sand Springs Br nr Tulsa	QWMP	CNP			74615.	1976-77
07164400	Arkansas R Sand Springs Br nr Tulsa	SED	S			74615.	1974-77
07164500	Arkansas R at Tulsa	STRP		TMK	C	74615.	1925-
07164500	Arkansas R at Tulsa	QWH	BCNP	OBS	CA	74615.	1960-61,77-80
07164500	Arkansas R at Tulsa	QWMP	CNP			74615.	1977
07164500	Arkansas R at Tulsa	QWP	BCNP		CA	74615.	1960-61,81-
07164500	Arkansas R at Tulsa	QWD	P		C	74615.	1977-
07164500	Arkansas R at Tulsa	SED	S		A	74615.	1977-
07164700	Arkansas R nr Jenks	QWMP	CNP				1973-74
07164940	Deep Ck nr Olive	CS				3.25	1967-72
07165000	Heyburn Lake nr Heyburn	RES		RES	C	123.	1950-

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07165000	Heyburn Lake nr Heyburn	QWP	CP			123.	1961
07165500	Polecat Ck at Heyburn	STRP				123.	1943-79
07165500	Polecat Ck at Heyburn	QWP	CP			123.	1952-53,56-58,61
07165500	Polecat Ck at Heyburn	SED	S			123.	1978-79
07165507	Rock Cr at Sapulpa	LF			SG	67.3	1979-
07165510	Polecat Ck nr Jenks	QWP	COP				1960-63
07165520	Arkansas R at Bixby	QWD	CP				1949
07165550	Snake Ck nr Bixby	CS				50.0	*1951-70,71-76
07165559	Snake Ck nr Leonard	QWP	CP				1960-61
07165570	Arkansas R nr Haskell	STRP		DAR	C	75473.	1972-
07165570	Arkansas R nr Haskell	QWP	BCNP			75473.	1974-75
07165570	Arkansas R nr Haskell	QWMP	CNP			75473.	1974-79
07165570	Arkansas R nr Haskell	SED	S			75473.	1974-75
07165572	Coweta Ck nr Coweta	QWP	CP				1961
07165581	Cane Ck nr Jamesville	QWP	CP				1960-61
07165600	Arkansas R nr Tullahassee	STR				75815.	1971-72
07165610	Arkansas R at Muskogee	QWP	CP				1957,62,63
07170950	Verdigris R nr South Coffeyville	QWP	CP			4339.	1952-53
07171000	Verdigris R nr Lenapah	STRP		DAR	C	3639.	1938-
07171000	Verdigris R nr Lenapah	QWP	CP			3639.	1945,52-64
07171000	Verdigris R nr Lenapah	QWMP	CNP			3639.	1973-79
07171080	California Ck nr Nowata	QWP	CP				1952-53,59
07171100	Verdigris R nr Nowata	QWP	CP				1952-53
07171105	E Fk Big Ck nr Hollow	QWMP	CP			14.4	1980-83
07171105	E Fk Big Ck nr Hollow	PR				14.4	1980-83
07171105	E Fk Big Ck nr Hollow	SED	S			14.4	1980-83
07171120	Clear Ck Trib nr Hollow	CS			HJC	2.19	1966-75,79-
07171220	Big Ck nr Nowata	QWP	CP				1952-53,59
07171230	Salt Ck nr Allume	QWP	CP				1952-53,59
07171240	Lightning Ck nr Allume	QWP	CP				1952-53,59
07171260	Verdigris R nr Talala	QWP	CP				1952-53
07171300	Oologah Lake nr Oologah	RESP			C	4339.	1963-
07171400	Verdigris R nr Oologah	STRP			C	4339.	1961-
07171400	Verdigris R nr Oologah	QWP	CP			4339.	1962-63,65-75
07171400	Verdigris R nr Oologah	QWMP	CNP			4339.	1973-79
07171405	Verdigris R, Hwy 88 Br, nr Claremore	QWD	CP				1952-53,59
07171490	Sweetwater Ck nr Claremore	QWMP	CP				1980-83
07171490	Sweetwater Ck nr Claremore	PR					1980-83

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07171490	Sweetwater Ck nr Claremore	SED	S				1980-83
07171500	Verdigris R nr Sageeyah	STRP				4402.	1939-45
07172000	Caney R nr Elgin, KS	QWMP	CNP			445.	1973-75
07172470	Caney R nr Boulangerville	QWP	CP				1952-53
07172500	Hulah Lake nr Hulah	RESP		RES	C	732.	1950-
07173000	Caney R nr Hulah	STRP			C	736.	1937-
07173000	Caney R nr Hulah	QWP	CP			736.	1952-53,**,60,63-64
07173000	Caney R nr Hulah	QWMP	CNP			736.	1975-79
07174000	Caney Ck nr Copan	STRP				424.	1944-58
07174150	Cotton Ck nr Copan	QWP	CP				1952-53,67-68
07174150	Cotton Ck nr Copan	QWMP	CNP				1973-79
07174200	Little Caney R blw Cotton Ck nr Copan	STRP				502.	1958-80
07174300	Copan Lake nr Copan	RESP			C		1983-
07174310	Little Caney R blw Copan Lake nr Copan	STRP			C		1984-
07174500	Caney R at Bartlesville	STRP				1465.	1950-56
07174500	Caney R at Bartlesville	QWP	CP			1465.	1952-53,67-68
07174510	Coon Ck nr Dewey	QWP	CP				1952-53
07174570	Dry Hollow nr Pawhuska	CS				1.67	1965-72
07174600	Sand Ck at Okesa	STRP			C	139.	1959-
07174600	Sand Ck at Okesa	QWP	CP			139.	1952-53,60-62
07174650	Sand Ck at Bartlesville	QWP	CP				1952-53
07174700	Caney R nr Ochelata	STRP				1753.	1956-76
07174700	Caney R nr Ochelata	QWP	CP			1753.	1960-61
07174700	Caney R nr Ochelata	QWMP	CNP			1753.	1973-75
07174720	Hogshooter Ck Trib nr Bartlesville	CS			MG	0.94	1965-
07175000	Double Ck SWS #5 nr Ramona	STRP				2.39	1955-69
07175000	Double Ck SWS #5 nr Ramona	QWP	CP			2.39	1954-55,**,67-69
07175500	Caney R nr Ramona	STRP		OBS	C	1955.	1935-39,45-
07175500	Caney R nr Ramona	QWP	CNP		JC	1955.	1952-53,**65-
07175500	Caney R nr Ramona	QWMP	CNP			1955.	1975-79
07175550	Caney R nr Collinsville	QWP	CP				1949-53,59
07176000	Verdigris R nr Claremore	STRP		TWK	C	6534.	1935-
07176000	Verdigris R nr Claremore	QWD	CP			6534.	1948-54,59
07176000	Verdigris R nr Claremore	QWMP	CNP			6534.	1975-79
07176320	Bird Ck nr Pawhuska	QWP	CP			157.	1952-53
07176350	Bird Ck nr Barnsdall	QWP	CP				1949-53
07176455	Birch Ck nr Barnsdall	QWP	CP				1965-66

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07176460	Birch Lake nr Barnsdall	RESP			C	66.0	1977-
07176465	Birch Ck blw Birch Lake nr Barnsdall	STRP			C	66.0	1976-
07176500	Bird Ck at Avant	STRP		DAR	C	364.	1945-
07176500	Bird Ck at Avant	QWP	CP			364.	1965-66
07176500	Bird Ck at Avant	QWMP	CNP			364.	1973-79
07176525	Candy Ck nr Avant	QWP	CP				1952,65-66
07176800	Candy Ck nr Wolco	STRP				30.6	1969-81
07176910	Bird Ck nr Skiatook	QWP	CP				1948-53
07176950	Hominy Ck nr Hominy	QWP	CP				1950-53,56,65-66
07177000	Hominy Ck nr Skiatook	STRP				340.	1944-80
07177000	Hominy Ck nr Skiatook	QWP	CP			340.	1948-53,65-66
07177400	Skiatook Lake nr Skiatook	RES			C	354.	1984-
07177410	Hominy Ck blw Skiatook Lk nr Skiatook	STRP			C	354.	1984-
07177450	Hominy Ck nr Sperry	QWP	CP				1952-53
07177500	Bird Ck nr Sperry	STRP		TMK	C	905.	1938-
07177500	Bird Ck nr Sperry	QWD	CP			905.	1952-53,**,64-76
07177500	Bird Ck nr Sperry	QWMP	CNP			905.	1976-77
07177520	Delaware Ck nr Sperry	QWP	CP				1952-53
07178000	Bird Ck nr Owasso	STR				1022.	1936-39
07178000	Bird Ck nr Owasso	QWP	CP			1022.	1948-53
07178050	Bird Ck nr Catoosa	QWP	CP		3C	1080.	1965-
07178050	Bird Ck nr Catoosa	QWMP	CNP			1080.	1975-79
07178400	Bird Ck at Catoosa	QWMP	CNP				1978-79
07178550	Dog Ck nr Claremore	LF			ZG	63.6	1979-
07178580	Otter Ck nr Tiawah	CS				15.2	1966-72
07178500	Verdigris R nr Catoosa	STR				7709.	1903-5
07178600	Verdigris R nr Inola	STRP				7911.	1945-70
07178600	Verdigris R nr Inola	QWP	SCNP			7911.	1948-72
07178600	Verdigris R nr Inola	QWMP	CNP			7911.	1977
07178600	Verdigris R nr Inola	SED	S			7911.	1948-72
07178620	Newt Graham L&D nr Inola	QWP	BCNP		A	8030.	1971-
07178620	Newt Graham L&D nr Inola	QWMP	CNP			8030.	1973-77
07178620	Newt Graham L&D nr Inola	SED	S		A	8030.	1974-
07178640	Bull Ck nr Inola	CS				10.7	1965-75
07178650	Billy Ck Trib nr Wagoner	CS				5.71	1966-72
07178670	Verdigris R nr Okay	QWP	CP			8296.	1952-53,60-63
07185000	Neosho R nr Commerce	STR			LG	5876.	1939-
07185000	Neosho R nr Commerce	QWP	CNP			5876.	1948-54,60-73
07185000	Neosho R nr Commerce	QWMP	CNP			5876.	1973-79
07185000	Neosho R nr Commerce	SED	S		C	5876.	1976-

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TABLE 2.--STATION NUMBER LISTING OF CURRENT AND HISTORICAL GAGING STATIONS MAINTAINED BY THE U.S. GEOLOGICAL SURVEY
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STATION NUMBER	STATION NAME	TYPE OF DATA	Q.W. PARA- METERS	STAGE SOURCE	COOP	DRAINAGE AREA (SQ.MI.)	PERIOD OF RECORD
07185095	Tar Ck at 22nd St Brdg at Miami	STR			JG	44.8	1984-
07185100	Tar Ck at Miami	STR				52.0	1980-84
07188000	Spring R nr Quapaw	STR			LG	2510.	1939-
07188000	Spring R nr Quapaw	QWP	CP			2510.	1948-58,60-63
07188000	Spring R nr Quapaw	QWMP	CNP			2510.	1973-79
07188140	Flint Br nr Peoria	CS			HG	4.90	1964-
07188500	Lost Ck at Seneca, MO	CS				42.0	1949-59*,60-74
07188500	Lost Ck at Seneca, MO	QWP	CP			42.0	1951-58
07189000	Elk R nr Tiff City, MO	STR			LG	872.	1939-
07189000	Elk R nr Tiff City, MO	QWP	CP			872.	1948-49,51-58,60-61
07189000	Elk R nr Tiff City, MO	QWMP	CNP			872.	1973-77
07189480	Wolf Ck nr Grove	LF				7.21	1966-72
07189500	Neosho R nr Grove	STR				9969.	1925-39
07189700	Horse Ck at Afton	CS			HG	21.9	1966-
07189720	Horse Ck Trib nr Afton	CS				0.81	1966-72
07190000	Lake O' The Cherokees at Langley	RES		RES	LG	10298.	1940-
07190000	Lake O' The Cherokees at Langley	QWP	CP			10298.	1948-49
07190500	Neosho R nr Langley	STR			LG	10335.	1939-
07190500	Neosho R nr Langley	QWP	CP			10335.	1950-59
07190500	Neosho R nr Langley	QWMP	CNP			10335.	1973-79
07190595	Big Cabin Ck nr Welch	QWMP	CP			28.1	1980-83
07190595	Big Cabin Ck nr Welch	PR				28.1	1980-83
07190595	Big Cabin Ck nr Welch	SED	S			28.1	1980-83
07190597	Big Cabin Ck Trib nr Welch	QWMP	CP				1980-83
07190597	Big Cabin Ck Trib nr Welch	PR					1980-83
07190597	Big Cabin Ck Trib nr Welch	SED	S				1980-83
07190600	Big Cabin Ck nr Pyramid Corners	CS				71.1	1963-72**,73-79
07190620	W Fk Big Cabin Ck nr Centralia	QWMP	CP			13.1	1980-83
07190620	W Fk Big Cabin Ck nr Centralia	PR				13.1	1980-83
07190620	W Fk Big Cabin Ck nr Centralia	SED	S			13.1	1980-83
07190625	M Fk Big Cabin Ck nr Pyramid Corners	QWMP	CP			13.4	1980-83
07190625	M Fk Big Cabin Ck nr Pyramid Corners	PR				13.4	1980-83
07190625	M Fk Big Cabin Ck nr Pyramid Corners	SED	S			13.4	1980-83
07190650	Big Cabin Ck nr Vinita	QWP	CP				1949-51
07190850	Little Cabin Ck nr Vinita	QWP	CP				1948-51
07191000	Big Cabin Ck nr Big Cabin	STR			LG	466.	1947-
07191000	Big Cabin Ck nr Big Cabin	QWP	CP			466.	1951-60,64-71
07191000	Big Cabin Ck nr Big Cabin	QWMP	CNP			466.	1975-77
07191200	Spavinaw Ck nr Row	STR				128.	1959-62

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07191200	Spavinaw Ck nr Row	QWP	CP			128.	1959-61
07191220	Spavinaw Ck nr Sycamore	STR			PG	133.	1961-
07191220	Spavinaw Ck nr Sycamore	QWMP	CNP			133.	1977
07191220	Spavinaw Ck nr Sycamore	QWP	CNP		a	133.	1968,77,80-
07191223	Spavinaw Ck nr Jay	QWP	CP				1958-59,61
07191260	Brushy Ck nr Jay	CS				16.0	1965-72
07191350	Salina Ck nr Salina	QWP	CP				1948-49,51-53,58-59
07191355	Spavinaw Ck nr Spavinaw	QWP	CP				1948-51
07191400	Lake Hudson nr Locust Grove	RESP		RES	LG	11534.	1964-
07191500	Neosho R nr Chouteau	STR			LG	11546.	1938-50,63-
07191500	Neosho R nr Chouteau	QWP	CP			11546.	1951-58,60
07191500	Neosho R nr Chouteau	QWMP	CNP			11546.	1973-79
07192000	Pryor Ck nr Pryor	STR				229.	1948-64
07192000	Pryor Ck nr Pryor	QWP	CP			229.	1948-63
07192030	Pryor Ck at Elliot St Bridge, nr Pryor	QWP	CNP				1966-71
07192050	Pryor Ck at Hwy 69A Bridge, nr Pryor	QWP	CP				1958,62-63
07192060	Pryor Ck blw Sulphur Ck nr Pryor	QWP	CNP				1966-75
07192500	Neosho R nr Wagoner	STR				12307.	1924-49
07192500	Neosho R nr Wagoner	QWP	CP			12307.	1948-50
07193000	Fort Gibson Lake nr Fort Gibson	RESP		RES	C	12492.	1949-
07193500	Neosho R blw Ft Gibson L nr Ft Gibson	STRP		OBS	C	12495.	1950-
07193500	Neosho R blw Ft Gibson L nr Ft Gibson	QWP	BCNP		A	12495.	1952-
07193500	Neosho R blw Ft Gibson L nr Ft Gibson	QWMP	CNP			12495.	1973-77
07193500	Neosho R blw Ft Gibson L nr Ft Gibson	SED	S		A	12495.	1973-
07194500	Arkansas R nr Muskogee	STR		BDT		96674.	1926-70
07194500	Arkansas R nr Muskogee	QWP	CP			96674.	1957,63
07194500	Arkansas R nr Muskogee	QWMP	CNP			96674.	1973-79
07194512	Bayou Manard nr Ft Gibson	QWP	CP				1961
07194515	Mill Ck nr Park Hill	CS			HG	2.57	1965-
07194540	Greenleaf Lake nr Braggs	QWP	CP				1949,51-52
07194545	Greenleaf Ck nr Braggs	QWP	CP				1953-55
07194550	Arkansas R at Webbers Falls L&D	QWMP	CNP				1973-75
07194551	Arkansas R at Webbers Falls	QWD	CP			97049.	1949,57-63
07195500	Illinois R nr Watts	STR		DAR	C	635.	1955-
07195500	Illinois R nr Watts	QWP	CNP			635.	1955-61,63,69-73
07195500	Illinois R nr Watts	QWMP	CNP			635.	1975-79
07196000	Flint Ck nr Kansas	STR			JG	110.	1979-
07196000	Flint Ck nr Kansas	QWP	CP			110.	1955-61,63
07196000	Flint Ck nr Kansas	QWMP	CNP			110.	1975-79

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07196010	Flint Ck Trib nr Flint	CS				0.94	1966-72
07196380	Illinois R Trib nr Tahlequah	CS				3.59	1965-75
07196500	Illinois R nr Tahlequah	STR		DAR	JG	959.	1935-
07196500	Illinois R nr Tahlequah	QWP	CP			959.	1960-61
07196500	Illinois R nr Tahlequah	QWMP	CNP			959.	1975-79
07196500	Illinois R nr Tahlequah	SED	S		C	959.	1976-
07196510	Tahlequah Ck at Tahlequah	QWMP	CNP			13.4	1976-77
07196900	Baron Fk at Dutch Mills, AR	QWP	C			43.0	1959-61
07197000	Baron Fk at Eldon	STR		BDT	CJG	307.	1948-
07197000	Baron Fk at Eldon	QWP	CP			307.	1958-60
07197000	Baron Fk at Eldon	QWMP	CNP			307.	1975-79
07197500	Tenkiller Ferry Lake nr Gore	RESP		RES	C	1610.	1952-
07198000	Illinois R nr Gore	STRP			C	1626.	1939***,48,52,54-
07198000	Illinois R nr Gore	QWP	CP		JG	1626.	1948-
07198000	Illinois R nr Gore	QWMP	CNP			1626.	1973-79
07198500	Dirty Ck nr Warner	STRP				227.	1940-46
07198500	Dirty Ck nr Warner	QWP	CP			227.	1960-61
07198800	South Fk nr Porum	QWMP	CP			48.7	1980-83
07198800	South Fk nr Porum	PR				48.7	1980-83
07198800	South Fk nr Porum	SED	S			48.7	1980-83
07228000	Canadian R nr Canadian, TX	QWMP	CNP			22866.	1973-77
07228150	Commission Ck nr Grand	LF				57.8	1965-66
07228160	Canadian R nr Cheyenne	QWMP	CP				1950-51
07228200	Canadian R nr Roll	QWP	CP			23615.	1950-53,62-63
07228200	Canadian R nr Roll	QWMP	CNP			23615.	1976-77
07228220	Turkey Ck nr Camargo	LF				86.0	1965-73
07228250	Canadian R at Taloga	QWP	C				1953
07228280	Little Robe Ck nr Oakwood	CS				6.30	1966-72
07228290	Rough Ck nr Thomas	CS			HG	10.4	1964-
07228300	Canadian R nr Thomas	QWP	CP				1952-53,61-63
07228400	Deer Ck at Hydro	STR				274.	1961-64,77-80
07228400	Deer Ck at Hydro	QWP	CNP			274.	1951-58,60-63,77-80
07228450	Deer Ck Trib nr Hydro	CS				2.31	1964-75
07228500	Canadian R at Bridgeport	STR		OBS	JG	25229.	1944-64,69-
07228500	Canadian R at Bridgeport	QWD	CNP			25229.	1949-61,64,70-81
07228500	Canadian R at Bridgeport	QWP	CNOPS		JG	25229.	1981-
07228500	Canadian R at Bridgeport	QWMP	CNP			25229.	1973-79
07228500	Canadian R at Bridgeport	SED	S			25229.	1978-81

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07228600	Canyon View Ck nr Geary	CS				11.8	1964-72
07228700	Canadian R nr Union City	QWP	CNP				1952-53,73
07228930	Worley Ck nr Tuttle	CS			HC	11.2	1965-72,75-
07228960	Canadian R Trib nr Newcastle	CS				3.32	1965-75
07229000	Canadian R nr Newcastle	STR				25763.	1939-45
07229050	Canadian R at Norman	QWP	CP				1958
07229100	Canadian R nr Noble	STR				25911.	1960-61,63-75
07229100	Canadian R nr Noble	QWD	CNP			25911.	1965-71,73-74
07229100	Canadian R nr Noble	QWMP	CNP			25911.	1973-75
07229100	Canadian R nr Noble	SED	S			25911.	1976
07229200	Canadian R at Purcell	STR				25939.	1960-61 79-82
07229200	Canadian R at Purcell	QWD	CNP			25939.	1952,**,60-63,74-75
07229200	Canadian R at Purcell	QWMP	CNP			25939.	1975-79
07229200	Canadian R at Purcell	SED	S			25939.	1979-82
07229220	Walnut Ck nr Blanchard	CS				1.26	1964-72
07229300	Walnut Ck at Purcell	STR			JG	202.	1965-
07229300	Walnut Ck at Purcell	QWP	CP			202.	1950-55,58-62
07229300	Walnut Ck at Purcell	QWMP	CNP			202.	1976-77
07229420	Julian Ck Trib nr Asher	CS			HC	2.28	1964-
07229425	Spring Ck nr Ada	QWP	CP				1952-53
07229430	Arbeca Ck nr Allen	CS				2.26	1964-74
07229441	Elm Ck nr Moore	QWP	CP				1960-61
07229442	E Elm Ck nr Moore	QWP	CP				1960
07229460	Little R abv Lake Thunderbird nr Norman	QWP	BCNP		B		1983-
07229500	Little R nr Norman	STR				120.	1952-55
07229500	Little R nr Norman	QWP	CP			120.	1951-57,59,61
07229601	Clear Ck nr Norman	QWP	CP				1961
07229801	Hog Ck nr Stella	QWP	CP				1960-61
07229900	Lake Thunderbird nr Norman	RESP		RES	GM	256.	1965-
07229900	Lake Thunderbird nr Norman	QWP	CP		JGB	256.	1965-
07230000	Little R blw Lake Thunderbird nr Norman	STR			GM	257.	1952-
07230000	Little R blw Lake Thunderbird nr Norman	QWP	CP			257.	1953-65
07230000	Little R blw Lake Thunderbird nr Norman	QWMP	CNP			257.	1975-79
07230500	Little R nr Tecumseh	STR			C	456.	1943-
07230500	Little R nr Tecumseh	QWP	CP			456.	1951-63
07230500	Little R nr Tecumseh	SED	S			456.	***1973-78
07230531	Little R nr Harjo	QWP	CP				1961
07230558	Little R nr Maud	QWP	CP				1959,61

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07230597	Little R nr Bowlegs	STR		OBS	B	550.	1983-
07230597	Little R nr Bowlegs	QWP	CNP		B	550.	1953,59,61,83-
07230597	Little R nr Bowlegs	SED	S			550.	1983-
07230651	Salt Ck nr Trousdale	QWP	CP				1961
07230700	Salt Ck nr Pearson	LF				83.8	1955-56
07230700	Salt Ck nr Pearson	QWP	CNP			83.8	1956-61
07230708	Blacksmith Ck nr Pearson	QWP	CP				1961
07230731	Salt Ck nr St Louis	QWP	CP				1959-61
07230800	Salt Ck nr Dewright	STR				210.	1960-63,66-67
07230800	Salt Ck nr Dewright	QWP	CP			210.	1952-63
07231000	Little R nr Sasakwa	STR			JG	865.	1942-
07231000	Little R nr Sasakwa	QWP	CP		JG	865.	1951-
07231000	Little R nr Sasakwa	QWMP	CN			865.	1975-79
07231000	Little R nr Sasakwa	SED	S			865.	1976
07231102	Deep Ck nr Spaulding	QWP	CP				1961
07231320	Leader Ck Trib nr Atwood	CS			HG	0.72	1964-
07231500	Canadian R at Calvin	STR		DCP	C	27952.	**1905-06,44-
07231500	Canadian R at Calvin	QWP	BCNP		JGAE	27952.	1950-53,60-61,65-
07231500	Canadian R at Calvin	QWMP	CNP			27952.	1973-77
07231500	Canadian R at Calvin	SED	S		CAE	27952.	1975-
07231560	Middle Ck nr Carson	CS				7.40	1964-74
07231950	Pine Ck nr Higgins	CS			HG	9.99	1964-
07231955	Gaines Ck nr Higgins	PR					1978-80
07231955	Gaines Ck nr Higgins	QWP	CNP				1978-80
07231962	Ti Ck abv unnamed Trib nr Blanco	CS				1.83	1980-81
07231962	Ti Ck abv unnamed Trib nr Blanco	QWP	CNOP			1.83	1980-81
07231965	Ti Ck nr Blanco	STR				4.82	1980-81
07231965	Ti Ck nr Blanco	QWP	BCNP			4.82	1980-81
07231965	Ti Ck nr Blanco	SED	S			4.82	1980-81
07231975	Brushy Ck nr Haileyville	STR				139.	1978-82
07231975	Brushy Ck nr Haileyville	QWP	BCNP			139.	1978-82
07231975	Brushy Ck nr Haileyville	SED	S			139.	1978-81
07231990	Peaceable Ck nr Haileyville	STR				134.	1978-82
07231990	Peaceable Ck nr Haileyville	QWP	BCNP			134.	1978-82
07231990	Peaceable Ck nr Haileyville	SED	S			134.	1978-82
07232000	Gaines Ck nr Krebs	STRP				588.	1943-63
07232000	Gaines Ck nr Krebs	QWP	CP			588.	1946-47,50-51,60-62
07232008	Blue Ck Trib A nr Blocker	PR				4.67	1978-81

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07232008	Blue Ck Trib A nr Blocker	QWP	CNP			4.67	1978-81
07232008	Blue Ck Trib A nr Blocker	SED	S			4.67	1978-81
07232009	Blue Ck Trib B nr Blocker	PR				0.22	1976-78
07232009	Blue Ck Trib B nr Blocker	QWP	CNP			0.22	1976-78
07232009	Blue Ck Trib B nr Blocker	SED	S			0.22	1976-78
07232010	Blue Ck nr Blocker	STR				12.1	1976-82
07232010	Blue Ck nr Blocker	QWP	CNP			12.1	1976-82
07232010	Blue Ck nr Blocker	SED	S			12.1	1976-81
07232024	Deer Ck nr McAlester	STR				38.3	1978-80
07232024	Deer Ck nr McAlester	QWP	CNP			38.3	1978-80
07232024	Deer Ck nr McAlester	SED	S			38.3	1978-80
07232027	Coal Ck nr McAlester	QWP	CP			196.	1960-61
07232029	Mathuldy Ck nr Crowder	PR				5.41	1976-81
07232029	Mathuldy Ck nr Crowder	QWP	CNP			5.41	1976-81
07232029	Mathuldy Ck nr Crowder	SED	S			5.41	1976-81
07232031	Rock Ck nr Crowder	QWP	CNP				1961
07232050	Gaines Ck nr Canadian	QWP	CP				1960-62
07232245	Beaver R at Felt	QWMP	CNP			850.	1977
07232250	Beaver R nr Felt	CS				879.	1972-79
07232250	Beaver R nr Felt	STR			JG	879.	1979-
07232400	Beaver (Sand) Ck nr Texhoma	LF				217.	1967-71
07232450	Tepee Ck nr Eva	LF				95.0	1967-73
07232500	Beaver R nr Guymon	STR		DCP	C	2139.	1937-
07232500	Beaver R nr Guymon	QWD	BCNP			2139.	1952,54-63,68-79
07232500	Beaver R nr Guymon	QWMP	CNP			2139.	1973-77
07232500	Beaver R nr Guymon	SED	S		C	2139.	1975-
07232550	South Fk Trib nr Guymon	CS			HG	0.26	1964-
07232580	Goff Ck nr Hough	LF				470.	1968-71
07232590	Goff Ck nr Guymon	LF				510.	1964-68
07232610	Beaver R nr Optima	QWP	CP				1972-73
07232620	Pony Ck nr Optima	LF				223.	1966-71
07232630	Beaver R nr Hooker	QWP	CP			3017.	1972-73,75-79
07232630	Beaver R nr Hooker	QWMP	CNP			3017.	1977
07232650	Aqua Frio Ck nr Felt	CSR				31.0	1964-75
07232950	Coldwater Ck nr Guymon	STR			GJ		1981-
07233000	Coldwater Ck nr Hardesty	STR				1967.	1939-64
07233000	Coldwater Ck nr Hardesty	QWP	CP			1967.	1952-63
07233200	Optima Lake nr Hardesty	RES			C	5029.	1978-

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07233210	Beaver R nr Hardesty	STR			C	4770.	1978-
07233210	Beaver R nr Hardesty	SED	S		C	4770.	1978-
07233700	Palo Duro Ck nr Range	LF				1745.	1951-73
07233700	Palo Duro Ck nr Range	QWP	CNP			1745.	1952-62
07233850	Sharp Ck Trib nr Turpin	CSR				1.00	1964-75
07234000	Beaver R at Beaver	STR		DCP	C	7955.	1937-
07234000	Beaver R at Beaver	QWD	BCNP			7955.	1952,58-59,62-82
07234000	Beaver R at Beaver	QWP	BCNP		A	7955.	1983-
07234000	Beaver R at Beaver	QWMP	CNP			7955.	1973-77
07234000	Beaver R at Beaver	SED	S		A	7955.	1974-
07234050	N Fk Clear Ck Trib nr Balko	CS			HG	4.22	1964-
07234100	Clear Ck nr Elmwood	STR			JC	170.	1965-
07234100	Clear Ck nr Elmwood	QWP	CP			170.	1952-53
07234130	Duck Pond Ck nr Clear Lake	LF				97.0	1966-73
07234200	Kiowa Ck nr Slapout	LF				371.	1945,49-61,63-73
07234200	Kiowa Ck nr Slapout	QWP	CP			371.	1952-58,60
07234250	Kiowa Ck Trib nr Laverne	CS				2.14	1964-72
07234290	Clear Ck Trib nr Catesby	CS			HG	8.51	1966-
07234300	Clear Ck nr May	QWP	CP			109.	1954-58,60
07234500	Beaver R nr Fort Supply	STGU				9615.	*1937-51,51-79
07235500	Wolf Ck nr Shattuck	STRP				1183.	1938-46
07235700	Little Wolf Ck Trib nr Gage	CS				18.4	1964-74
07236000	Wolf Ck nr Fargo	STR				1624.	1942-76
07236000	Wolf Ck nr Fargo	QWP	CP			1624.	1958,60-63
07236000	Wolf Ck nr Fargo	SED	S			1624.	***1973-76
07236050	Wolf Ck Trib nr Tangier	CS				6.23	1964-72
07236500	Fort Supply Lake nr Fort Supply	RES		DCP	C	1735.	1942-
07236500	Fort Supply Lake nr Fort Supply	QWP	CP			1735.	1949,50,53
07237000	Wolf Ck nr Fort Supply	STR		OBS	C	1739.	1937-
07237000	Wolf Ck nr Fort Supply	QWP	CP			1739.	1951-58,60
07237000	Wolf Ck nr Fort Supply	SED	S			1739.	[illegible]976
07237500	N Canadian R at Woodward	STR		DCP	C	11589.	[illegible]938-
07237500	N Canadian R at Woodward	QWP	BCNP		A	11589.	**1955,61-63,75-
07237500	N Canadian R at Woodward	QWMP	CNP			11589.	1973-77
07237500	N Canadian R at Woodward	SED	S		A	11589.	1975-
07237590	Indian Ck nr Woodward	QWP	CP				1951-57
07237700	Persimmon Ck nr Mutual	LF				164.	1958-61,65-73
07237700	Persimmon Ck nr Mutual	QWP	CP			164.	1951,58

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07237750	Cottonwood Ck nr Vici	CS			HG	11.5	1964-
07237800	Bent Ck nr Seiling	CS			JG	139.	*1966-70,71-
07237800	Bent Ck nr Seiling	QWP	CP			139.	1956
07238000	N Canadian R nr Seiling	STR		DCP	C	12261.	1946-
07238000	N Canadian R nr Seiling	QWP	BCNP			12261.	1953-59,*,74-75
07238000	N Canadian R nr Seiling	QWMP	CNP			12261.	1973-79
07238000	N Canadian R nr Seiling	SED	S		C	12261.	***1973-
07238500	Canton Lake nr Canton	RES		DCP	C	12483.	1948-
07238500	Canton Lake nr Canton	QWP	CP		JG	12483.	**1949-50,68-
07239000	N Canadian R at Canton	STR		DCP	C	12484.	1937-
07239000	N Canadian R at Canton	QWD	CP			12484.	1951-59
07239000	N Canadian R at Canton	QWMP	CNP			12484.	1973-79
07239000	N Canadian R at Canton	SED	S			12484.	1976
07239050	N Canadian R Trib nr Eagle City	CS				0.52	1964-75
07239200	N Canadian R nr Watonga	STR				12692.	1954-83
07239200	N Canadian R nr Watonga	SED	S			12692.	***1973-1978
07239300	N Canadian R blw Weavers Ck nr Watonga	STR	DCP		C	12736.	1984-
07239450	N Canadian R nr Ft Reno	QWP	BCNP				1974-75
07239450	N Canadian R nr Ft Reno	SED	S				1974-75
07239500	N Canadian R nr El Reno	STR		BDT	KG	13042.	**1902-08,37-
07239500	N Canadian R nr El Reno	QWD	CP			13042.	**1950-51,53,74-75
07239500	N Canadian R nr El Reno	QWMP	CNP			13042.	1973-79
07239500	N Canadian R nr El Reno	SED	S			13042.	***1973-1978
07239650	Canadian R at Cemetary Rd nr Yukon	QWP	CNOP				1973
07239700	N Canadian R nr Yukon	PR			KG	13183.	1943-
07239700	N Canadian R nr Yukon	QWP	CP			13183.	1952-54
07239750	N Canadian R at Morgan Rd nr Yukon	QWP	CNOP				1973
07240000	Lake Hefner Canal nr OKC	STR			KG		1944-
07240500	Lake Overholser nr OKC	RESP		RES	KG	13221.	1937-
07241000	N Canadian R blw Lake Ovrholsr nr OKC	STR			KG	13222.	**1952-68,73-
07241000	N Canadian R blw Lake Ovrholsr nr OKC	QWD	CP			13222.	1960-61
07241000	N Canadian R blw Lake Ovrholsr nr OKC	SED	S	DCP	C	13222.	1973-
07241030	S Br T2 Mst'g Ck at SW 74, Mustang	CSR				0.54	1976-81
07241031	S Br T,T2 Mst'g Ck at SW 74, Mustang	CSR				0.29	1976-81
07241080	N Canadian R Trib at NW 10, OKC	CS				1.78	1976-81
07241100	N Canadian R at Portland Ave, OKC	QWP	CNOP				1973
07241200	N Canadian R at Western Ave, OKC	QWP	CNOP				1973
07241210	Twin Ck at SW 29 , OKC	CSR				3.35	1976-81
07241220	Brock Ck at SW 59, OKC	CSR				2.26	1976-81

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07241230	Lightning Ck at SW 74, OKC	CS				3.96	1976-81
07241250	Lightning Ck at OKC	QWP	CNOP				1973
07241300	N Canadian at I-40, OKC	QWP	CNOP				1973
07241350	Crooked Oak Ck at OKC	QWP	CNOP				1973
07241500	N Canadian R nr OKC	STR				13354.	1939-61
07241500	N Canadian R nr OKC	QWP	CP			13354.	1952,60-63
07241508	Crutcho Ck Trib at Reno, Midwest City	CSR				1.41	1976-81
07241550	N Canadian R nr Harrah	STR		OBS	XG	13501.	1968-
07241550	N Canadian R nr Harrah	QWP	CNP		XG	13501.	1969-
07241550	N Canadian R nr Harrah	QWMP	CNP			13501.	1973-79
07241550	N Canadian R nr Harrah	QWD	P		XG	13501.	1968-
07241550	N Canadian R nr Harrah	SED	S		A	13501.	1983-
07241600	Lake Shawnee nr Shawnee	RESU				34.0	1957-78
07241880	Sand Ck nr Cromwell	CS			HG	9.48	1964-
07242000	N Canadian R nr Wetumka	STR		DCP	C	14290.	1937-
07242000	N Canadian R nr Wetumka	QWP	BCNP		JGA	14290.	1952,54-
07242000	N Canadian R nr Wetumka	QWMP	CNP			14290.	1973-79
07242000	N Canadian R nr Wetumka	QWD	P		JGAE	14290.	1953-
07242000	N Canadian R nr Wetumka	SED	S		AE	14290.	1977-
07242050	Wewoka Ck nr Wewoka	QWP	CP				1962-63
07242080	Little Wewoka Ck nr Wetumka	QWP	CP				1962-63
07242090	Grief Ck nr Wetumka	QWP	CP				1962-63
07242100	Wewoka Ck nr Wetumka	STR				396.	1960-63,66-67
07242100	Wewoka Ck nr Wetumka	QWP	CP			396.	1952-57,60-64
07242109	Fish Ck nr Wetumka	QWP	CP				1960
07242160	Alabama Ck nr Weleetka	CS			HGJ	16.5	1965-
07242160	Alabama Ck nr Weleetka	CSR				16.5	1965-83
07242180	Stidham Ck Trib nr Dustin	CS				2.56	1964-76
07242190	N Canadian R nr Pierce	QWP	CP				1960-63
07242200	Deep Fk at Portland, OKC	CSR				2.98	1974-81
07242210	Deep Fk at Youngs Blvd, OKC	QWP	CNOP				1973
07242215	Deep Fk Trib at Bellview Dr, OKC	QWP	CNOP				1973
07242217	Deep Fk at Pennsylvania Ave, OKC	QWP	C				1960-62
07242219	Deep Fk Trib at NW 50, OKC	CSR				2.65	1976-81
07242220	Deep Fk at Eastern, OKC	CSR				28.2	1975-81
07242240	Deep Fk Trib blw Northeast Lake, OKC	QWP	CNOP				1973
07242245	Deep Fk Trib nr Witcher	QWP	CNOP				1973
07242250	Deep Fk nr Witcher	QWP	CNOP				1973

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07242270	Spring Ck at Pine Oak Dr, Edmond	CSR				1.32	1976-81
07242280	Spring Ck nr Edmond	QWP	CNOP				1973
07242300	Deep Fk at Witcher	QWP	CNOP				1960-62,73
07242350	Deep Fk nr Arcadia	STR		OBS	C	105.	1969-
07242350	Deep Fk nr Arcadia	QWP	CNP		C	105.	1970-
07242350	Deep Fk nr Arcadia	QWMP	CNP			105.	1973-79
07242350	Deep Fk nr Arcadia	SED	S		C	105.	1978-
07242370	Wildhorse Ck Trib nr Luther	CSR				2.12	1974-76
07242370	Wildhorse Ck Trib nr Luther	CS			JG	2.12	1974-
07242380	Deep Fk at Warwick	STR		DCP	C	522.	1984-
07242380	Deep Fk at Warwick	SED	S		C	522.	1984-
07242400	Deep Fk nr Chandler	QWP	CP				1960-62
07242500	Bellcow Ck at Chandler	STR				46.0	1948-55
07242500	Bellcow Ck at Chandler	QWP	CP			46.0	1949-54
07243000	Dry Ck nr Kendrick	STR			A	69.0	1955-
07243000	Dry Ck nr Kendrick	QWP	COP			69.0	**1955,70-73
07243450	Little Deep Fk Ck nr Edna	QWP	CP				1951-57,60-62
07243500	Deep Fk nr Beggs	STR		OBS	C	2018.	1938-
07243500	Deep Fk nr Beggs	QWP	BCNP		JGAE	2018.	1952-
07243500	Deep Fk nr Beggs	QWMP	CNP			2018.	1973-79
07243500	Deep Fk nr Beggs	QWD	P		JGA	2018.	1951-
07243500	Deep Fk nr Beggs	SED	S		CAE	2018.	1978-
07243550	Adams Ck nr Beggs	CSR				5.90	1965-76
07243550	Adams Ck nr Beggs	CS			HG	5.90	1965-
07244000	Deep Fk nr Dewar	STRP				2307.	1938-50
07244000	Deep Fk nr Dewar	QWD	CP			2307.	1949-51
07244200	Deep Fk nr Pierce	QWP	CP			2548.	1960-63
07244500	N Canadian R nr Eufaula	STR				17657.	1960-62
07244500	N Canadian R nr Eufaula	QWP	CP			17657.	1952-53,60,61
07244550	Longtown Ck nr Enterprise	QWP	CP				1952-53
07244790	Brooken Ck nr Enterprise	CS				5.66	1964-71
07244800	Eufaula Lake nr Brooken	RESP			C	47522.	1964-
07244800	Eufaula Lake nr Brooken	QWD	CP			47522.	1965-67
07245000	Canadian R nr Whitefield	STRP			CA	47576.	1938-
07245000	Canadian R nr Whitefield	QWP	BCNP		JGA	47576.	1947-64,67-
07245000	Canadian R nr Whitefield	QWMP	CNP			47576.	1973-77
07245000	Canadian R nr Whitefield	QWD	P	OBS	JGA	47576.	1944-45,46-64,66-
07245000	Canadian R nr Whitefield	SED	S		A	47576.	1975-
07245020	Taloka Ck at Stigler	PR				3.98	1978-81
07245020	Taloka Ck at Stigler	QWP	CNP			3.98	1978-81

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07245020	Taloka Ck at Stigler	SED	S			3.98	1978-81
07245025	Taloka Ck Trib nr Stigler	PR				2.04	1979-81
07245025	Taloka Ck Trib nr Stigler	QWP	CNP			2.04	1978-81
07245025	Taloka Ck Trib nr Stigler	SED	S			2.04	1979-81
07245030	Taloka Ck nr Stigler	STR				20.1	1978-81
07245030	Taloka Ck nr Stigler	QWP	CNP			20.1	1978-81
07245030	Taloka Ck nr Stigler	SED	S			20.1	1978-81
07245040	Jackson Ck nr Stigler	PR				7.33	1980-81
07245040	Jackson Ck nr Stigler	QWP	CNP			7.33	1980-81
07245040	Jackson Ck nr Stigler	SED	S			7.33	1980-81
07245090	Vian Ck nr Vian	CS				19.6	1966-72
07245090	Vian Ck nr Vian	QWP	CP			19.6	1958-59
07245119	Little Vian Ck nr Vian	QWP	CP				1960
07245500	Sallisaw Ck nr Sallisaw	STRP				182.	194[illegible]-76
07245500	Sallisaw Ck nr Sallisaw	QWP	CP			182.	1952-63
07245500	Sallisaw Ck nr Sallisaw	QWMP	CNP			182.	1977
07245703	Sans Bois Ck nr Kinta	QWP	CP				1961
07245980	Mule Ck at SR 31 nr McCurtain	QWP	CP			3.64	1981-82
07245980	Mule Ck at SR 31 nr McCurtain	PR				3.64	1981-82
07245990	Mule Ck nr McCurtain	QWP	CP			6.45	1979-83
07245990	Mule Ck nr McCurtain	PR				6.45	1979-83
07245991	E Pond Outlet to Mule Ck nr McCurtain	QWP	CP				1979-83
07245991	E Pond Outlet to Mule Ck nr McCurtain	PR					1979-83
07245992	Mule Ck nr McCurtain	QWP	CP			6.49	1981-83
07245992	Mule Ck nr McCurtain	PR				6.49	1981-83
07245994	Mule Ck nr McCurtain	QWP	CP			6.74	1981-83
07245994	Mule Ck nr McCurtain	PR				6.74	1981-83
07246000	Sans Bois Ck nr Keota	STR				346.	1938-42
07246000	Sans Bois Ck nr Keota	QWP	CP			346.	1958-63
07246400	R S Kerr L&D nr Sallisaw (Ark R)	QWP	CP		JG	147756.	1970-
07246400	R S Kerr L&D nr Sallisaw (Ark R)	QWMP	CNP			147756.	1975-79
07246500	Arkansas R nr Sallisaw	STRP				147757.	1948-70
07246500	Arkansas R nr Sallisaw	QWD	CP			147757.	1957,59-63
07246600	Cache Ck nr Cowlington	CS				20.6	1964-72
07246600	Cache Ck nr Cowlington	QWP	CP			20.6	1959-61
07246610	Pecan Ck nr Spiro	CSR				0.90	1964-76
07246615	Coal Ck nr Spiro	STR				18.1	1978-82
07246615	Coal Ck nr Spiro	QWH	P			18.1	1978-81
07246615	Coal Ck nr Spiro	QWP	BCNP			18.1	1978-81
07246615	Coal Ck nr Spiro	SED	S			18.1	1978-81
07246630	Big Black Fox Ck nr Long	CS			HG	5.32	1964-
07247000	Poteau R at Cauthron, AR	QWMP	CNP			203.	1973-75

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07247350	Poteau R nr Heavener	QWMP	CNP				1976-79
07247450	Fourche Maline nr Wilburton	STR				56.2	1978-81
07247450	Fourche Maline nr Wilburton	QWH	P			56.2	1978-80
07247450	Fourche Maline nr Wilburton	QWP	CNP			56.2	1978-81
07247450	Fourche Maline nr Wilburton	SED	S			56.2	1978-81
07247500	Fourche Maline nr Red Oak	STR			JC	122.	1938-
07247500	Fourche Maline nr Red Oak	QWP	CP			122.	1952,54,56-60,63,77-78,83-84
07247500	Fourche Maline nr Red Oak	QWMP	CNP			122.	1978-79
07247550	Red Oak Ck nr Red Oak	STR				13.1	1978-82
07247550	Red Oak Ck nr Red Oak	QWH	P			13.1	1980-81
07247550	Red Oak Ck nr Red Oak	QWP	CNP			13.1	1978-81
07247550	Red Oak Ck nr Red Oak	SED	S			13.1	1978-81
07248000	Wister Lake nr Wister	RESP		RES	C	993.	1949-
07248000	Wister Lake nr Wister	QWP	CP			993.	1960-64
07248500	Poteau R nr Wister	STRP			C	993.	1938-
07248500	Poteau R nr Wister	QWP	CP			993.	1948,52,55-59
07248500	Poteau R nr Wister	QWMP	CNP			993.	1973-79
07248600	Caston Ck at Wister	STR				72.9	1978-82
07248600	Caston Ck at Wister	QWP	BCNP			72.9	1978-81
07248600	Caston Ck at Wister	SED	S			72.9	1978-81
07248620	Morris Ck at Howe	STR				19.4	1978-81
07248620	Morris Ck at Howe	QWP	CNP			19.4	1978-81
07248620	Morris Ck at Howe	SED	S			19.4	1978-81
07248700	Sugarloaf Ck nr Monroe	STR				53.6	1978-81
07248700	Sugarloaf Ck nr Monroe	QWP	CNP			53.6	1978-81
07248700	Sugarloaf Ck nr Monroe	SED	S			53.6	1978-81
07249000	Poteau R at Poteau	STR				1240.	1938-45
07249000	Poteau R at Poteau	QWP	CP			1240.	1944-45
07249060	Brazil Ck nr Red Oak	PR				2.74	1978-81
07249060	Brazil Ck nr Red Oak	QWP	CNP			2.74	1978-81
07249060	Brazil Ck nr Red Oak	SED	S			2.74	1978-81
07249070	Rock Ck nr Red Oak	PR				12.0	1978-81
07249070	Rock Ck nr Red Oak	QWP	CNP			12.0	1978-81
07249070	Rock Ck nr Red Oak	SED	S			12.0	1978-81
07249073	Brazil Ck nr Lodi	PR				28.8	1980-81
07249073	Brazil Ck nr Lodi	QWP	CNP			28.8	1980-81
07249073	Brazil Ck nr Lodi	SED	S			28.8	1980-81
07249080	Brazil Ck nr Walls	STR		OBS	A	69.1	1978-81,84-
07249080	Brazil Ck nr Walls	QWP	CNP			69.1	1978-81
07249080	Brazil Ck nr Walls	SED	S			69.1	1978-81

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07249100	Owl Ck nr McCurtain	STR				27.9	1978-81
07249100	Owl Ck nr McCurtain	QWP	CNP			27.9	1978-81
07249100	Owl Ck nr McCurtain	SED	S			27.9	1978-81
07249200	Brazil Ck nr Panama	QWP	CP				1960-61
07249400	James Fk Ck nr Hackett, AR	STR			W	148.	1958-
07249400	James Fk Ck nr Hackett, AR	QWP	CNP			148.	1960-61,76-81
07249400	James Fk Ck nr Hackett, AR	SED	S			148.	1976-81
07249410	James Fk nr Williams	PR				198.	1976-81
07249410	James Fk nr Williams	QWP	CNP			198.	1976-81
07249410	James Fk nr Williams	SED	S			198.	1976-81
07249415	Coal Ck Trib nr Bokoshe	PR				1.26	1976-79
07249415	Coal Ck Trib nr Bokoshe	QWP	CNP			1.26	1976-79
07249415	Coal Ck Trib nr Bokoshe	SED	S			1.26	1976-79
07249419	Coal Ck nr Panama	CS				6.67	1976-79
07249419	Coal Ck nr Panama	QWP	CNP			6.67	1976-79
07249419	Coal Ck nr Panama	SED	S			6.67	1977-79
07249422	Holi-Tuska Ck nr Panama	STRP				4.39	1978-81
07249422	Holi-Tuska Ck nr Panama	QWP				4.39	1978-81
07249422	Holi-Tuska Ck nr Panama	SED	S			4.39	1978-81
07249438	Poteau R nr Braden	QWP	CP				1958-59,62-63
07249440	Poteau R nr Fort Smith, AR	QWMP	CNP				1975-77
07249800	Lee Ck nr Short	QWP	CP			236.	1958-61
07249800	Lee Ck nr Short	QWMP	CNP			236.	1976-77
07249900	Little Lee Ck nr Short	QWMP	CNP			103.	1978-79
07250500	Arkansas R at Van Buren, AR	QWP	CP			150482.	1960-61
07250500	Arkansas R at Van Buren, AR	QWMP	CNP			150482.	1973-75
07250550	Arkansas R at Dam 13 nr Van Buren	QWMP	CNP			150547.	1976-77
07298500	Prairie Dog Town Fk Red R nr Brice,TX	QWP	C			6082.	1960
07299565	Red R nr Hollis	QWMP	CNP			8154.	1977
07299570	Red R nr Quanah, TX	QWMP	CNP			8321.	1973-77
07299705	Bitter Ck nr Hollis	CS				11.3	1964-72
07299710	Lebos Ck nr Eldorado	STR				280.	1960-64
07299710	Lebos Ck nr Eldorado	QWP	CP			280.	1952-55,58,61-63
07299720	Mule Ck nr Eldorado	CS				3.84	1965-72
07299725	Eldorado Spring nr Eldorado	QWP	CP				1950
07299770	Gypsum Ck nr Creta	QWP	CP				1961
07299780	Gypsum Ck nr Olustee	LF				107.	1954-57,65-73

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07299780	Gypsum Ck nr Olustee	QWP	CP			107.	1955-57
07300000	Salt Fk Red R nr Wellington, TX	QWMP	CNP			1222.	1976-77
07300150	Bear Ck nr Vinson	CSR				7.24	1964-76
07300150	Bear Ck nr Vinson	CS			HG	7.24	1964-
07300400	Salt Fk Red R nr Vinson	QWP	CP			1421.	1952-54,60-63
07300400	Salt Fk Red R nr Vinson	QWMP	CNP			1421.	1977
07300500	Salt Fk Red R at Mangum	STR		OBS	JG	1566.	1938-
07300500	Salt Fk Red R at Mangum	QWP	CP			1566.	**1947-52,54,60-63
07300500	Salt Fk Red R at Mangum	QWMP	CNP			1566.	1975-79
07300500	Salt Fk Red R at Mangum	SED	S			1566.	1976-78
07301000	Turkey Ck nr Olustee	STR				244.	1905-08
07301100	Turkey Ck at Olustee	STR				293.	1960-64
07301100	Turkey Ck at Olustee	QWP	CP			293.	1952,54-57,61-63
07301110	Salt Fk Red R nr Elmer	STR		OBS	JG	1878.	1979-
07301110	Salt Fk Red R nr Elmer	QWP	BCNP		A	1878.	1978-
07301110	Salt Fk Red R nr Elmer	SED	S		A	1878.	1978-
07301315	N Fk Red R nr Texola	QWMP	CNP			1284.	1977
07301425	Sweetwater Ck nr Texas Line	QWP	CP				1953-54
07301450	N Fk Red R nr Erick	QWP	COP			1223.	1952,60-63
07301452	Starvation Ck nr Prentiss	LF				44.5	1964-73
07301455	Turkey Ck nr Erick	CS			HG	19.8	1964-
07301455	Turkey Ck nr Erick	QWP	CP			19.8	1953
07301460	Turkey Ck nr Sayre	LF				47.5	1953-56,65-73
07301460	Turkey Ck nr Sayre	QWP	CP			47.5	1953
07301490	Short Ck nr Sayre	CS			HG	9.12	1964-
07301481	N Fk Red R nr Sayre	STR				2159.	1978-83
07301481	N Fk Red R nr Sayre	STGU		OBS	C	2159.	1984-
07301485	Spring Ck nr Elk City	CS				0.93	1968-72
07301495	Indian Ck nr Carter	CS				24.9	1965-75
07301500	N Fk Red R nr Carter	STR		DCP	TQG	2337.	1944-62,64-
07301500	N Fk Red R nr Carter	QWH	CNP			2337.	**1949,58-63,68-79
07301500	N Fk Red R nr Carter	QWMP	CNP			2337.	1973-79
07302000	N Fk Red R nr Granite	STR				2494.	1903-08,38-44
07302000	N Fk Red R nr Granite	QWP				2494.	1905-07
07302500	Lake Altus at Lugert	RES		RES	TQG	2515.	1943-
07302500	Lake Altus at Lugert	QWP	CP			2515.	1949,50-52,55-57
07302510	Altus Canal blw Lake Altus nr Altus	QWP				2515.	1952,55-57
07303000	N Fork Red R blw Lake Altus nr Lugert	STR			TQG	2515.	**1930-32,64-
07303000	N Fork Red R blw Lake Altus nr Lugert	QWP	CP			2515.	1963

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07303000	N Fork Red R blw Lake Altus nr Lugert	QWMP	CNP			2515.	1973-74
07303395	Elm Fk N Fk Red R at Salton Crossing	QWH	CP			411.	1960-61,73-79
07303400	Elm Fk N Fork Red R nr Carl	PR				416.	*1959-79,80-82
07303400	Elm Fk N Fork Red R nr Carl	QWP	CP			416.	1960-63,68-82
07303400	Elm Fk N Fork Red R nr Carl	QWMP	CNP			416.	1976-77
07303400	Elm Fk N Fork Red R nr Carl	SED	S			416.	1978-79
07303402	Fish Ck nr Vinson	PR				31.5	1978-79
07303402	Fish Ck nr Vinson	QWP	CP			31.5	1978-79
07303404	Salt Ck nr Vinson	PR				5.64	1978-79
07303404	Salt Ck nr Vinson	QWP	CP			5.64	1978-79
07303406	Elm Fk N Fk Red R nr Vinson	PR				428.	1978-81
07303406	Elm Fk N Fk Red R nr Vinson	QWP	CP			428.	1978-81
07303420	Elm Fk N Fk Red R nr Reed	STR				579.	1978
07303420	Elm Fk N Fk Red R nr Reed	QWP	CP			579.	1978
07303450	Deer Ck nr Plainview	CSR				27.8	1964-77
07303500	Elm Fk N Fk Red R nr Mangum	STR				838.	**1905-08,65-76
07303500	Elm Fk N Fk Red R nr Mangum	QWH	CP			838.	**1951,1968-76
07303500	Elm Fk N Fk Red R nr Mangum	QWMP	CNP			838.	1975-79
07304000	N Fk Red R nr Lugert	STR				3435.	1930-31
07304107	Elk Ck nr Elk City	QWP	CP				1960
07304299	Spring Ck nr Sentinel	QWP	CP				1960
07304403	E Elk Ck nr Rocky	QWP	CP				1961
07304500	Elk Ck nr Hobart	STR			DG	549.	**1904-08,49-
07304500	Elk Ck nr Hobart	QWP	CP	OBS	DG	549.	**1949-,54-63,70-
07304500	Elk Ck nr Hobart	QWMP	CNP			549.	1975-79
07304500	Elk Ck nr Hobart	QWD	P		DG	549.	1949-51,58-63,69-
07305000	N Fk Red R nr Headrick	STR			C	4244.	**1905-08,37-
07305000	N Fk Red R nr Headrick	QWH	BCNP			4244.	**1951,54-63,68-81
07305000	N Fk Red R nr Headrick	QWP	BCNP	OBS	A	4244.	1982-
07305000	N Fk Red R nr Headrick	QWMP	CNP			4244.	1973-77
07305000	N Fk Red R nr Headrick	SED	S		A	4244.	***1973-
07305198	W Otter Ck at Cold Spring	QWP	CP				1961
07305302	Glenn Ck nr Cold Spring	QWP	CP				1961
07305500	W Otter Ck at Snyder Lake nr Mtn Park	STR			D	132.	1903-08,51-
07305500	W Otter Ck at Snyder Lake nr Mtn Park	QWP	CP			132.	1960
07306000	Horse Ck nr Mountain Park	STR				11.1	1906
07306500	Otter Ck at Mountain Park	STR				164.	1946-51
07306500	Otter Ck at Mountain Park	QWP	CP			164.	1952

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07307000	Dry Fk Otter Ck nr Mountain Park	STR				12.0	1905-06
07307010	Otter Ck nr Snyder	QWP	CP				1951,60-63
07307020	Otter Ck nr Tipton	QWP	CP				1960-63
07307028	N Fk Red R nr Tipton	STR		OBS	J	4681.	1983-
07307028	N Fk Red R nr Tipton	QWP	CP			4681.	1960
07308200	Pease R nr Vernon, TX	QWP	C			3488.	1960
07308310	Suttle Ck nr Davidson	LF				55.0	1965-66
07308500	Red R nr Burkburnett, TX	QWMP	CNP			20570.	1973-77
07308890	E Cache Ck nr Apache	QWP	C				1951
07308990	Lake Ellsworth nr Elgin	RESU			UG	249.	1964-
07309000	E Cache Ck nr Elgin	STR				248.	1956-58
07309000	E Cache Ck nr Elgin	QWD	CP			248.	1956,58
07309000	E Cache Ck nr Elgin	QWMP	CNP			248.	1975-79
07309480	Canyon Ck nr Medicine Park	CS				3.35	1965-75
07309500	Lake Lawtonka nr Lawton	RESU		RES	UG	93.0	1955-
07309950	Medicine Ck nr Fort Sill	QWP	CP				1951
07310000	Little Medicine Bluff Ck nr Lawton	STR				7.00	1913-19
07310500	Medicine Bluff Ck nr Lawton	STR				101.	1913-19
07311000	E Cache Ck nr Walters	STR			UG	675.	1938-68,69-
07311000	E Cache Ck nr Walters	QWP	CP		UG	675.	**1947-48,58-63,70-
07311000	E Cache Ck nr Walters	QWMP	CNP			675.	1975-79
07311200	Blue Beaver Ck nr Cache	STR			A	24.6	1964-
07311200	Blue Beaver Ck nr Cache	QWP	BCNP		A	24.6	1965-
07311200	Blue Beaver Ck nr Cache	SED	S		A	24.6	1965-
07311240	W Cache Ck nr Cookietown	LF				1112.	1951-55,65-73
07311240	W Cache Ck nr Cookietown	QWP	CP			1112.	1952-55,60-63
07311410	Red Ck nr Snyder	CS				6.12	1965-74
07311420	Deadman Ck Trib at Manitou	CS				2.57	1965-72
07311500	Deep Red Run nr Randlett	STR			JG	617.	1949-
07311500	Deep Red Run nr Randlett	QWD	CP			617.	**1948,69-70
07311500	Deep Red Run nr Randlett	QWMP	CNP			617.	1975
07311505	Deep Red Run nr Taylor	QWP	CP			1121.	1959
07311505	Deep Red Run nr Taylor	QWMP	CNP			1121.	1976-79
07312720	Red R nr Waurika	QWMP	CNP				1978-79
07312750	Beaver Ck nr Lawton	QWP	CP				1948,61
07312850	Nine Mile Beaver Ck nr Elgin	CSR				6.29	1964-76
07312850	Nine Mile Beaver Ck nr Elgin	CS			HG	6.29	1964-
07312950	Little Beaver Ck nr Marlow	CS				35.4	1964-75
07313000	Little Beaver Ck nr Duncan	STR				158.	1949-63
07313000	Little Beaver Ck nr Duncan	QWP	CP			158.	**1948-49,58-63

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07313009	Little Beaver Ck nr Gas City	QWP	CP				1961
07313211	Walker Ck nr Corum	QWP	CP				1961
07313400	Waurika Lake nr Waurika	RESP			C	562.	1978-
07313500	Beaver Ck nr Waurika	STR			C	563.	1953-
07313500	Beaver Ck nr Waurika	QWP	CP			563.	1953-66
07313500	Beaver Ck nr Waurika	QWMP	CNP			563.	1975-79
07313533	Cow Ck nr Comanche	QWP	CP				1959,61
07313566	Dry Ck nr Comanche	QWP	CP				1961
07313600	Cow Ck at Waurika	CS			JG	193.	*1967-70,71-
07313600	Cow Ck at Waurika	QWP	CP			193.	1960-63,67-70
07313600	Cow Ck at Waurika	QWMP	CNP			193.	1978-79
07313702	Beaver Ck nr Ryan	QWP	CP				1960-61
07315500	Red R nr Terral	QWMP	CNP			28723.	1973-77
07315672	W Mud Ck nr Atlee	QWP	CP				1961
07315680	Cottonwood Ck Trib nr Loco	CS			HG	1.74	1964-
07315681	Mud Ck nr Ringling	QWP	CP				1953
07315681	W Mud Ck nr Ringling	QWP	CP				1960
07315697	Mud Ck nr Grady	QWP	CP				1951-52,60-61
07315700	Mud Ck nr Courtney	STR			JG	572.	1960-
07315700	Mud Ck nr Courtney	QWP	CP			572.	1960,62-63
07315700	Mud Ck nr Courtney	QWMP	CNP			572.	1975-79
07315873	Walnut Bayou nr Oswalt	QWP	CP				1960
07315880	Demijohn Ck nr Wilson	CS				5.74	1964-73
07315882	Simon Ck nr Oswalt	QWP	CP				1960-61
07315891	Simon Ck at Pike	QWP	CP				1960-61
07315900	Walnut Bayou nr Burneyville	STR				314.	1961-64,69-71
07315900	Walnut Bayou nr Burneyville	QWD	CP			314.	1960-62,69-71
07315900	Walnut Bayou nr Burneyville	QWMP	CNP			314.	1975-79
07316000	Red R nr Gainesville, TX	STRP		BDT	C	30782.	1936-
07316000	Red R nr Gainesville, TX	QWP	COP			30782.	1953-63
07316000	Red R nr Gainesville, TX	QWMP	CNP			30782.	1973-77
07316070	Hickory Ck nr Marietta	LF				116.	1964-73
07316100	Lake Murray nr Ardmore	QWP	CP				1949-53,56-57
07316130	Wilson Ck Trib nr McMillan	CS				2.97	1965-75
07316140	Brier Ck nr Powell	CSR				12.0	1965-76
07316140	Brier Ck nr Powell	CS			HG	12.0	1965-
07316350	Washita R nr Reydon	QWP	CP			4.98	1949,52
07316350	Washita R nr Reydon	QWMP	CNP			4.98	1977
07316410	Washita R Trib nr Crawford	CS				2.18	1965-72

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07316500	Washita R nr Cheyenne	STR		OBS	JG	794.	1937-
07316500	Washita R nr Cheyenne	QWP	CNP			794.	1950-53,60-61,69-73
07316500	Washita R nr Cheyenne	QWMP	CNP			794.	1973-75
07317500	Sandstone Ck SWS 16A nr Cheyenne	STR				8.78	1952-74
07318000	Sandstone Ck SWS 16 nr Cheyenne	STR				11.5	1953-74
07318500	Sandstone Ck SWS 14 nr Cheyenne	STR				1.02	1953-74
07319000	Sandstone Ck SWS 17 nr Cheyenne	STR				10.1	1953-74
07319000	Sandstone Ck SWS 17 nr Cheyenne	QWP	CP			10.1	1969-70
07319500	Sandstone Ck nr Berlin	STR				44.9	1953-72
07319500	Sandstone Ck nr Berlin	QWP	CP			44.9	1958
07320000	Sandstone Ck SWS 10A nr Elk City	STR				2.87	1952-74
07320500	Sandstone Ck SWS 6 nr Elk City	STR				6.46	1953-74
07321000	Sandstone Ck SWS 5 nr Elk City	STR				3.89	1953-74
07321500	Sandstone Ck SWS 3 nr Elk City	STR				0.62	1953-74
07322000	Sandstone Ck SWS 9 nr Elk City	STR				3.50	1952-74
07322500	E Br Sandstone Ck nr Elk City	STR				23.0	1951-72
07322500	E Br Sandstone Ck nr Elk City	QWP	CP			23.0	1958
07323000	Sandstone Ck nr Cheyenne	STR				87.1	1951-74
07323000	Sandstone Ck nr Cheyenne	QWP	CP			87.1	1951-52,57-58
07323500	Sandstone Ck SWS 22 nr Cheyenne	STR				2.25	1953-72
07324000	Sandstone Ck SWS 1 nr Cheyenne	STR				5.33	1952-74
07324000	Sandstone Ck SWS 1 nr Cheyenne	QWP	COP			5.33	1969-70
07324109	Washita R nr Butler	QW					1961
07324150	Washita R nr Moorewood	QWP	CP				1970-72
07324190	Quartermaster Ck nr Hammon	QWP	CP				1970-
07324200	Washita R nr Hammon	STR			VG	1387.	1969-
07324200	Washita R nr Hammon	QWP	CNP	OBS	VG	1387.	1961,70-
07324200	Washita R nr Hammon	QWMP	CNP			1387.	1978-79
07324300	Foss Reservoir nr Foss	RESP		RES	JG	1496.	1961-
07324300	Foss Reservoir nr Foss	QWP	CP		VG	1496.	1963-
07324300	Foss Reservoir nr Foss	QWMP	CNP			1496.	1976-77
07324400	Washita R nr Foss	STR			VG	1551.	**1956-57,61-
07324400	Washita R nr Foss	QWP	CNP	OBS	VG	1551.	**1947-48,70-
07324400	Washita R nr Foss	QWMP	CNP			1551.	1973-79
07324500	Barnitz Ck nr Arapaho	STR				243.	1943-64
07324500	Barnitz Ck nr Arapaho	QWP	CP			243.	1952,55
07325000	Washita R nr Clinton	STR			C	1977.	1935-
07325000	Washita R nr Clinton	QWP	CP			1977.	1953,58,60-63

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07325300	Rainy Mtn Ck at Mountain View	LF				309.	1951-55,58-59
07325300	Rainy Mtn Ck at Mountain View	QWP	CP			309.	1952-55,58
07325400	Stinking Ck nr Carnegie	LF				104.	1951-55,58-61
07325400	Stinking Ck nr Carnegie	QWP	CP			104.	1952-55,58
07325500	Washita R at Carnegie	STR			JG	3129.	1937-
07325500	Washita R at Carnegie	QWP	CNP	OBS	VG	3129.	1948-
07325500	Washita R at Carnegie	QWMP	CNP			3129.	1973-75
07325753	Spring Ck nr Eakly	QWP	CP				1961
07325800	Cobb Ck nr Eakly	STR			NG	132.	1968-
07325850	Lake Ck nr Eakly	STR				52.0	1969-78
07325860	Willow Ck nr Albert	STR				28.0	1970-78
07325900	Ft Cobb Reservoir nr Ft Cobb	RESP		RES	NG	304.	1959-
07325900	Ft Cobb Reservoir nr Ft Cobb	QWP	CP			304.	1960-62
07326000	Cobb Ck nr Ft Cobb	QWP	CP			313.	**1947-58,60,63
07326000	Cobb Ck nr Ft Cobb	STR			NG	313.	1939-
07326500	Washita R at Anadarko	STRP			JG	3656.	**1902-08,63-
07326500	Washita R at Anadarko	QWD	CP			3656.	1952,65-71
07326500	Washita R at Anadarko	QWMP	CNP			3656.	1975-79
07326720	Tonkawa Ck nr Anadarko	QWD	CP			26.0	1968-71
07327000	Sugar Ck nr Gracemont	STRP				208.	1956-74
07327000	Sugar Ck nr Gracemont	QWP	CP			208.	1956-60
07327031	Spring Ck nr Gracemont	QWP	CP				1961
07327300	Washita R nr Chickasha	QWP	CP				1952-53,55,58-61
07327320	W Salt Ck nr Chickasha	QWD	COP			22.0	1968-71
07327420	W Bitter Ck nr Tabler	QWD	CP			60.8	**1953,61,65-71
07327432	Spring Ck nr Blanchard	QWP	C			1.19	1968-71
07327435	Spring Ck nr Tabler	QWP	C			2.28	1968-71
07327437	Spring Ck Trib nr Middleberg	QWP	C			0.76	1969-71
07327440	E Bitter Ck nr Tabler	QWD	CP			35.6	1960-61,68-71
07327449	McCardo Ck nr Cement	QWP	CP				1958-60
07327490	Little Washita R nr Ninnekah	STRP			JG	208.	1963-
07327490	Little Washita R nr Ninnekah	QWD	CNP			208.	1948-56,68-71
07327500	Little Washita R at Ninnekah	STR				227.	1952-63
07327500	Little Washita R at Ninnekah	QWP	CP			227.	1958-59,61-63
07328000	Washita R nr Tabler	STR				4706.	1940-52
07328000	Washita R nr Tabler	QWD	CP			4706.	1947-52
07328030	Big Dry Ck nr Alex	CS				7.57	1961-74
07328040	Little Dry Ck nr Alex	CS				0.88	1961-74

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07328070	Winter Ck nr Alex	STRP			JG	33.0	1964-
07328100	Washita R at Alex	STRP		OBS	JG	4787.	1964-
07328100	Washita R at Alex	QWD	CP			4787.	1965-71
07328173	Criner Ck nr Criner	QWP	CP				1961
07328200	Criner Ck nr Payne	QWP	CP				1958-60
07328250	Finn Ck nr Payne	QWP	CP				1961
07328300	Finn Ck nr Story	QWP	CP			67.2	1951-60
07328500	Washita R nr Pauls Valley	STR		OBS	JG	5330.	1937-
07328500	Washita R nr Pauls Valley	QWP	COP			5330.	1952-63
07328500	Washita R nr Pauls Valley	QWPM	CNP			5330.	1975-79
07328500	Washita R nr Pauls Valley	SED	S			5330.	1976-78
07328700	Rush Ck nr Rush Springs	LF					1952
07329000	Rush Ck at Purdy	STR		OBS	JG	145.	1940-53,82-
07329000	Rush Ck at Purdy	QWP	CP			145.	1947-54,58
07329500	Rush Ck nr Maysville	STR				206.	1953-76
07329500	Rush Ck nr Maysville	QWD	CP			206.	1954-71
07329500	Rush Ck nr Maysville	SED	S			206.	1976
07329500	Rush Ck nr Maysville	CS			JG	206.	1983-
07329550	Rush Ck nr Pauls Valley	QWP	CP				1952-53,58-59
07329660	Wildhorse Ck nr Hennepin	QWP	CP				1949-50
07329700	Wildhorse Ck nr Hoover	STR			JG	604.	1969-
07329700	Wildhorse Ck nr Hoover	QWD	CP			604.	1951-59,*,70-71
07329772	Chigley Sandy Ck nr Davis	QWP	CP				1955,61
07329843	Rock Ck N of Sulphur	QWP	CP				1960,69
07329853	Rock Ck S of Platt N Pk nr Surphur	QWP	CP				1960
07329860	Honey Ck nr Turner Falls	QWP	CP				1949-51,54
07329870	Honey Ck nr Davis	CS			HG	18.7	1964-
07329870	Honey Ck nr Davis	QWP	CP			18.7	1953,55-56
07329880	Lawrence Spring nr Drake	QWP	CP				1953
07329880	Lawrence Spring nr Sulphur	QWP	CP				1952,55-56
07329900	Rock Ck at Dougherty	STR				138.	1956-67
07329900	Rock Ck at Dougherty	QWD	CP			138.	1951-60
07330000	Washita R nr Berwyn	STR				6815.	1924-26
07330500	Caddo Ck nr Ardmore	STR				298.	1936-50
07330500	Caddo Ck nr Ardmore	QWP	CP			298.	1950-51,58
07331000	Washita R nr Dickson	STR			A	7202.	1928-
07331000	Washita R nr Dickson	QWD	BCNP	OBS	AE	7202.	1944-81,84-
07331000	Washita R nr Dickson	QWMP	CNP			7202.	1973-77
07331000	Washita R nr Dickson	QWP	BCNP			7202.	1982-83

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TABLE 2.--STATION NUMBER LISTING OF CURRENT AND HISTORICAL GAGING STATIONS MAINTAINED BY THE U.S. GEOLOGICAL SURVEY
SEPTEMBER 30, 1984
SYMBOLS DEFINED ON LAST PAGE OF REPORT

STATION NUMBER	STATION NAME	TYPE OF DATA	Q.W. PARA- METERS	STAGE SOURCE	COOP	DRAINAGE AREA (SQ.MI.)	PERIOD OF RECORD
07331000	Washita R nr Dickson	SED	S		CAE	7202.	***1973-
07331200	Mill Ck nr Mill Creek	LF				46.4	1952-55,58-71
07331200	Mill Ck nr Mill Creek	QWP	CP			46.4	1952-55,60
07331250	Mill Ck nr Ravia	STR				89.2	1969-71
07331250	Mill Ck nr Ravia	QWP				89.2	1969
07331300	Pennington Ck nr Reagan	LF				65.7	1951-55,58-73
07331300	Pennington Ck nr Reagan	QWP	CP			65.7	1951-55,58-59
07331401	Butcher Pen Ck nr Tishomingo	QWP	CP				1961
07331410	Buzzard Ck nr Reagan	CS				4.30	1965-75
07331500	Lake Texoma nr Denison, TX	RESP		RES	C	39719.	1942-
07331500	Lake Texoma nr Denison, TX	QWP	CP			39719.	1949-51
07331600	Red R at Denison Dam nr Denison, TX	STRP			C	39720.	1961-
07331600	Red R at Denison Dam nr Denison, TX	QWMP	CP			39720.	1973-77
07332000	Red R nr Colbert	STR				39777.	1924-61
07332000	Red R nr Colbert	QWP	CP			39777.	1960-61
07332070	Rock Ck nr Achille	CS				0.72	1965-74
07332250	Island Bayou nr Albany	LF				132.	1965-73
07332350	Blue R at Connerville	QWP	CP				1951-57,62
07332390	Blue R nr Connerville	STR				162.	1977-79
07332400	Blue R at Milburn	STR			JG	203.	1965-
07332400	Blue R at Milburn	QWP	CP			203.	1956-60
07332450	Blue R at Armstrong	QWMP	CNP			224.	1977
07332470	Chuckwa Ck nr Durant	QWP	CP				1953
07332500	Blue R nr Blue	STRP			C	476.	1936-
07332500	Blue R nr Blue	QWD	CP			476.	1951-58,60-63
07332500	Blue R nr Blue	QWMP	CNP			476.	1973-79
07332700	Muddy Boggy Ck nr Parker	LF				174.	1958-73
07332750	Muddy Boggy Ck nr Coalgate	QWP	CP				1962
07332800	Caney Boggy Ck nr Ashland	QWD	CNP			49.0	1972-75
07332900	Coal Ck nr Lehigh	STR				8.10	1978-81
07332900	Coal Ck nr Lehigh	QWH	CNOP			8.10	1977-81
07332900	Coal Ck nr Lehigh	SED	S			8.10	1978-81
07332950	Muddy Boggy Ck at Atoka	STR				445.	1978-81
07332950	Muddy Boggy Ck at Atoka	QWP	CNP			445.	1978-81
07332950	Muddy Boggy Ck at Atoka	SED	S			445.	1978-81
07333000	N Boggy Ck nr Stringtown	STR				136.	1956-59
07333000	N Boggy Ck nr Stringtown	QWP	CP			136.	1956-59
07333330	Chickasaw Ck Trib nr Stringtown	CS				3.19	1965-72
07333500	Chickasaw Ck nr Stringtown	CS				32.7	*1955-68,69-75

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SEPTEMBER 30, 1984
SYMBOLS DEFINED ON LAST PAGE OF REPORT

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07333500	Chickasaw Ck nr Stringtown	QWP	CP			32.7	1955-58,60
07333800	McGee Ck nr Stringtown	CS				86.6	*1955-68,69-75
07333800	McGee Ck nr Stringtown	QWP	CP			86.6	1956-58
07333910	McGee Ck nr Farris	STR				176.	1978-82
07333910	McGee Ck nr Farris	QWH	CP			176.	1976-82
07333910	McGee Ck nr Farris	QWP	CNP			176.	1976-82
07333910	McGee Ck nr Farris	SED	S			176.	1978-81
07334000	Muddy Boggy Ck nr Farris	STRP			C	1087.	1937-
07334000	Muddy Boggy Ck nr Farris	QWP	CP			1087.	1948,50-58,62-64
07334000	Muddy Boggy Ck nr Farris	QWMP	CNP			1087.	1973-79
07334200	Byrds Mill Spring nr Fittstown	STR			RG		1959-
07334200	Byrds Mill Spring nr Fittstown	QWP					1953,55-56
07334400	Clear Boggy Ck nr Tupelo	LF				248.	1958-73
07334400	Clear Boggy Ck nr Tupelo	QWP	COP			248.	1958,60,62
07334420	Leader Ck at Tupelo	LF				64.3	1958-73
07334420	Leader Ck at Tupelo	QWP	CP			64.3	1958,60
07334440	Delaware Ck nr Wapanucka	STR				45.8	1958-73
07334440	Delaware Ck nr Wapanucka	QWP	CP			45.8	1958,60
07334500	Clear Boggy Ck nr Wapanucka	STR				516.	1940-43
07334800	Clear Boggy Ck abv Caney Ck nr Caney	QWMP					1975-78
07335000	Clear Boggy Ck nr Caney	STRP			C	720.	1942-
07335000	Clear Boggy Ck nr Caney	QWP	CP			720.	1952-75
07335000	Clear Boggy Ck nr Caney	QWMP	CNP			720.	1975-79
07335300	Muddy Boggy Cr nr Unger	STR		OBS	JC		1982-
07335300	Muddy Boggy Ck nr Unger	QWP	CP				1962
07335310	Rock Ck nr Boswell	CS			MG	0.94	1965-
07335320	Bokchito Ck nr Soper	CS				16.6	1965-75
07335500	Red R at Arthur City, TX	STRP		DAR	C	44531.	**1936-
07335500	Red R at Arthur City, TX	QWP	CP			44531.	1960-63
07335500	Red R at Arthur City, TX	QWMP	CNP			44531.	1975-79
07335700	Kiamichi R nr Big Cedar	STR			A	40.1	1965-
07335700	Kiamichi R nr Big Cedar	QWP	BCNPR		A	40.1	1966-
07335700	Kiamichi R nr Big Cedar	QWMP	CNP			40.1	1973-79
07335700	Kiamichi R nr Big Cedar	SED	S		CA	40.1	1974-
07335760	Kiamichi R Trib nr Albion	CS				1.50	1965-72
07335775	Sardis Lake at Clayton	RES			C	275.	1983-
07335785	Jacks Fk Ck at Sardis Lake	STRP			C	275.	1984-

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SEPTEMBER 30, 1984
SYMBOLS DEFINED ON LAST PAGE OF REPORT

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07335790	Kiamichi R nr Clayton	STRP			C	708.	1980-
07335790	Kiamichi R nr Clayton	QWMP	CNP			708.	1977
07335900	Buck Ck nr Moyers	QWP	CP			100.	1956-57,60
07336000	Tenmile Ck nr Miller	CS			HG	68.0	1957-70,71-
07336000	Tenmile Ck nr Miller	QWP	C			68.0	1955-58
07336200	Kiamichi R nr Antlers	STRP		DAR	C	1138.	1972-
07336200	Kiamichi R nr Antlers	QWMP	CNP			1138.	1975-79
07336500	Kiamichi R nr Belzoni	STRP				1423.	1926-71
07336500	Kiamichi R nr Belzoni	QWD	CP			1423.	1948-54,62-63
07336520	Frazier Ck nr Oleta	CS			HG	19.4	1964-
07336600	Hugo Lake nr Hugo	RESP			C	1709.	1974-
07336700	Kiamichi R nr Sawyer	QWP	CP				1962
07336700	Kiamichi R nr Sawyer	QWMP	CNP				1978-79
07336710	Rock Ck nr Sawyer	CS				3.39	1964-74
07336730	Red R nr Valliant	QWP	CNP			46730.	1971-76
07336760	Red R nr Millerton	QWP	CNP			46930.	1971-76
07336780	Perry Ck nr Idabel	CS				7.53	1965-73
07336785	Bokchito Ck nr Garvin	CSR				2.96	1965-75
07336820	Red R nr De Kalb, TX	QWMP	CNP			47348.	1973-77
07336850	Red R nr New Boston, TX	QWP	C				1961-63
07337000	Red R at Index, AR	QWD	C			48030.	1960-63
07337100	Little R nr Cloudy	QWMP	CNP			324.	1975-79
07337150	Little R nr Alikchi	QWP	CP				1953
07337200	Little R nr Ringold	QWP					1962
07337220	Big Br nr Ringold	CS				1.99	1964-74
07337250	Little R abv Pine Ck Lake nr Wright Cty	QWMP	CNP				1976-77
07337300	Pine Ck Lake nr Wright City	RESP		RES	C	635.	1969-
07337500	Little R nr Wright City	STRP			C	645.	1929-31,44-
07337500	Little R nr Wright City	QWP	CP			645.	1953
07337500	Little R nr Wright City	QWMP	CNP			645.	1975-76
07337650	Little R nr Millerton	QWP	CPS				1953
07337900	Glover Ck nr Glover	STRP		DAR	C	315.	1961-
07337900	Glover Ck nr Glover	QWP	CP			315.	1949,53,62-63
07337900	Glover Ck nr Glover	QWMP	CNP			315.	1975-79
07337920	Fifteen Ck nr Glover	CS				1.23	1967-73
07337930	Glover R nr Broken Bow	QWP	CP				1949
07337950	Little R nr Garvin	QWP	CP				1953
07338000	Little R nr Idabel	STRP				1173.	1930-46

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07338000	Little R nr Idabel	QWD	COP			1173.	1948-54
07338500	Little R blw Lukfata Ck nr Idabel	STRP		DAR	C	1226.	1946-
07338500	Little R blw Lukfata Ck nr Idabel	QWP	COP			1226.	1948-54,61-63,69-73
07338500	Little R blw Lukfata Ck nr Idabel	QWMP	CNP			1226.	**1947-54,76-79
07338520	Yanubbee Ck nr Broken Bow	CSK				9.10	1964-76
07338520	Yanubbee Ck nr Broken Bow	CS			HG	9.10	1964-
07338780	Mountain Fk Trib nr Smithville	CS			HG	0.85	1965-
07338840	Mountain Fk nr Smithville	QWMP	CNP				1976-79
07338900	Broken Bow Lake nr Broken Bow	RESP		RES	C	754.	1968-
07339000	Mountain Fk nr Eagletown	STRP		DAR	C	787.	1924-25,29-
07339010	Mountain Fk blw Eagletown	QWP	CP				1961-63
07339100	Little R nr Cerrogordo	QWP	CP				1961-63
07340000	Little R nr Horatio, AR	QWMP	CNP			2674.	1978-79

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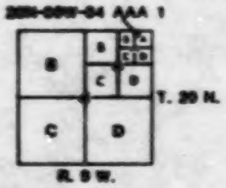
Table 3.--Continuous and partial record ground-water level sites currently measured in Oklahoma.

COUNTY	LOCAL IDENTIFIER[1]	LATITUDE/ LONGITUDE	AQUIFER[2]	DIA. (in.)	DEPTH (ft.)	COOP[2]	FREQ[3]	PERIOD OF RECORD	CITY
ADAIR	18N-26E-32 CDB 1	355927094340801	BOON	6	33	AJ	Q	1983-	WESTVILLE
ALFALFA	28N-11W-27 DAD 1	365342098175301	ALVM	6	36	AJ	C	1967-	BURLINGTON
ATOKA	03S-10E-34 CBB 1	341501096145401	ALRS	5	155	AJ	Q	1983-	CANEY
BEAVER	02N-24E-07 CCD 1	363853100311001	OGLL	6	94	AJ	Q	1946,67-	ELMWOOD
BLAINE	15N-10W-32 BAC 1	354412098172701	ALVM	5	52	AJ	C	1980-	GREENFIELD
CADDO	09N-13W-28 DDD 1	351308098341601	RSPG	6	335	AJ	C	1948-	ALFALFA
CADDO	11N-13W-21 DDC 1	352423098341701	RSPG	5	210	AJ	C	1965-	EAKLEY
CANADIAN	12N-05W-18 ADA 1	353107097453701	ALVM	12	47	AJ	C	1980-	YUKON
CIMARRON	03N-07E-09 BBB 1	364450102190001	OGLL	6	61	AJ	Q	1938-	KEYES
CLEVELAND	08N-02W-27 ACD 1	350816097233101	GRBR	12	461	AJ	Q	1943-	NOBLE
COAL	01S-10E-27 BAB 1	342619096144201	MCAL	8	32	AJ	C	1978-	LEHIGH
COMANCHE	01N-13W-04 BAA 1	343540098342001	ABCKU	6	997	A	M	1972-	CACHE
CRAIG	27N-19E-25 CBB 1	364705095135302		6	102	AJ	C	1980-	PYRAMID CORNERS
CREEK	17N-08E-30 CBB 1	355510096293501	VMOS	6	58	AJ	C	1969-	DRUMRIGHT
CUSTER	14N-14W-17 CBD 1	354112098430601	RSPG	16	320	AJ	C	1971-	THOMAS
DELAWARE	20N-24E-04 DCC 1	361415094452501	BOON	6	30	AJ	C	1983-	KANSAS
ELLIS	21N-24W-33 BBD 1	361536099464601	OGLL	5	205	AJ	C	1977-	GAGE
ELLIS	24N-26W-21 CAA 1	363235099592801	OGLL	5	120	AJ	C	1972-	CATESBY
GRADY	04N-08W-33 BBB 1	344656098031401	RSPG	6	254	A	C	1948-	RUSH SPRINGS
HARMON	03N-26W-33 ABA 1	344143099560601	DGCK	16	237	AJ	C	1983-	HOLLIS
HASKELL	10N-20E-13 DDD 1	352006095080101	MCAL	5	148	AJ	C	1981-	STIGLER
JOHNSTON	04S-04E-16 BBC 1	341243096534501	ALRS	6	54	AJ	C	1983-	MANNSVILLE
LATIMER	06N-22E-18 DCC 1	345908095013001	MCAL	5	138	AJ	C	1981-	RED OAK
LE FLORE	08N-25E-04 CDC 1	351122094403901	ATCK	5	136	AJ	C	1981-	PANAMA
LE FLORE	08N-26E-14 ACC 1	351002094314401	ATCK	5	277	AJ	C	1981-	WILLIAMS
LINCOLN	15N-06E-29 AAA 1	354442096400801	VMOS	6	339	AJ	C	1977-	STROUD
LOGAN	15N-02W-22 CCB 1	354525097242201	GRBR	6	146	AJ	C	1983-	WATERLOO
MAJOR	20N-09W-04 AAA 1	361442098092801	ALVM	6	60	AJ	C	1965-	AMES
MCCURTAIN	08S-24E-01 BBD 1	335337094451101	ALRS	12	62	AJ	C	1983-	IDABEL
MUSKOGEE	11N-19E-35 BBB 1	351833095155401	MCAL	6	40	AJ	C	1981-	PORUM
MUSKOGEE	15N-19E-15 DDD 1	354613095161001	ALVM	1.25	25	A	Q	1958,74-	FORT GIBSON
OKLAHOMA	11N-03W-01 CDD 1	352705097281201	GRBR	8	354	AJ	C	1976-	OKLAHOMA CITY
OKLAHOMA	11N-02W-02 BBD 1	352725097224701	GRBR	11	274	AJ	M	1976-	MIDWEST CITY
OKLAHOMA	11N-02W-02 ABA 1	352750097223001	GRBR	11	751	AJ	M	1976-	MIDWEST CITY
OKLAHOMA	11N-03W-23 BCD 1	352449097293201	GRBR	8	26	AJ	C	1976-	OKLAHOMA CITY
OKLAHOMA	12N-02W-26 CBB 1	352910097232001	GRBR	11	748	AJ	M	1976-	MIDWEST CITY
OSAGE	23N-09E-10 AAD 1	362935096291501	VMOS	13	55	AJ	C	1971-	WYNONA
OTTAWA	28N-23E-30 DCC 1	365229094520201	RBDX	5	1410	AJ	C	1907-	MIAMI
PITTSBURG	07N-16E-25 CDC 1	350241095341101	BGGY	5	140	AJ	C	1980-	BLOCKER
PONTOTOC	01N-06E-04 CAD 1	343457096404501	ABCKU	18	707	AJ	C	1959-	FITTSTOWN
ROGER MILLS	15N-24W-19 DDA 1	354527099470501	OGLL	12	122	AJ	C	1970-	ROLL
SEQUOYAH	11N-27E-21 CDD 1	352419094270401	ALVM	8	48	AJ	C	1960-	MOFFETT
TEXAS	01N-12E-35 BDD 1	363033101440701	OGLL	7	386	AJ	C	1956-	TEXHOMA
WASHITA	10N-19W-10 BBB 1	352142099122501	ELKC	8	107	A	C	1979-	BURNS FLAT
WOODS	28N-14W-35 BCC 1	365143098404201	CDHL	13	54	AJ	C	1972-	ALVA
WOODWARD	20N-19W-13 ABB 1	361256099102101	RSPG	6	40	AJ	C	1972-	MUTUAL
WOODWARD	21N-22W-23 BBB 1	361714099315101	RSPG	6	322	AJ	C	1957-63,65-	SHARON

[1]--LOCAL IDENTIFIER gives township, range, section number, and quarter-quarter section. (see sketch)



[2]--Codes for AQUIFER and COOP are given on last page of report.

[3]--FREQ is frequency that water level is measured (C)-continuous, (Q)-quarterly, and (M)-monthly.

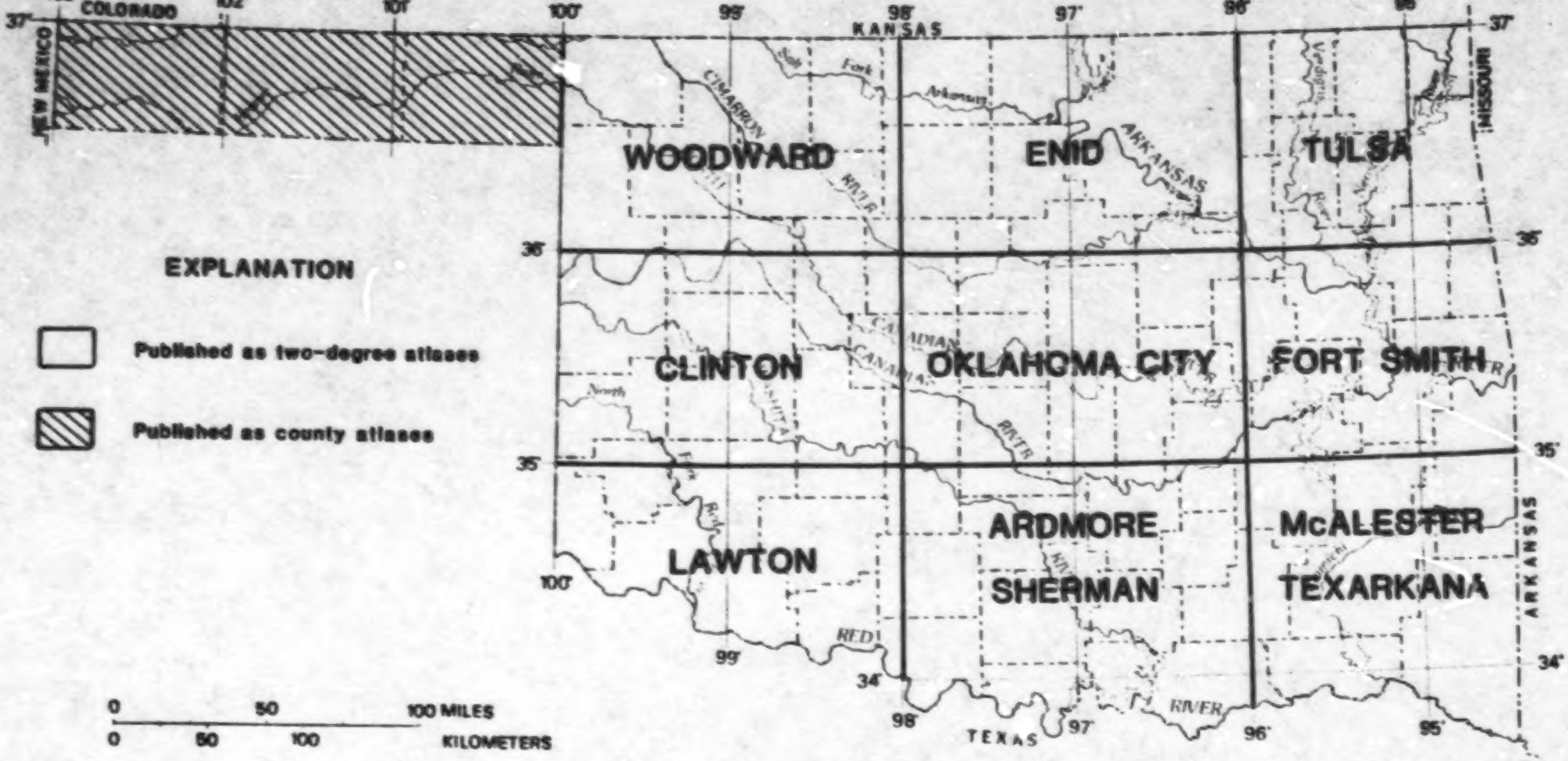
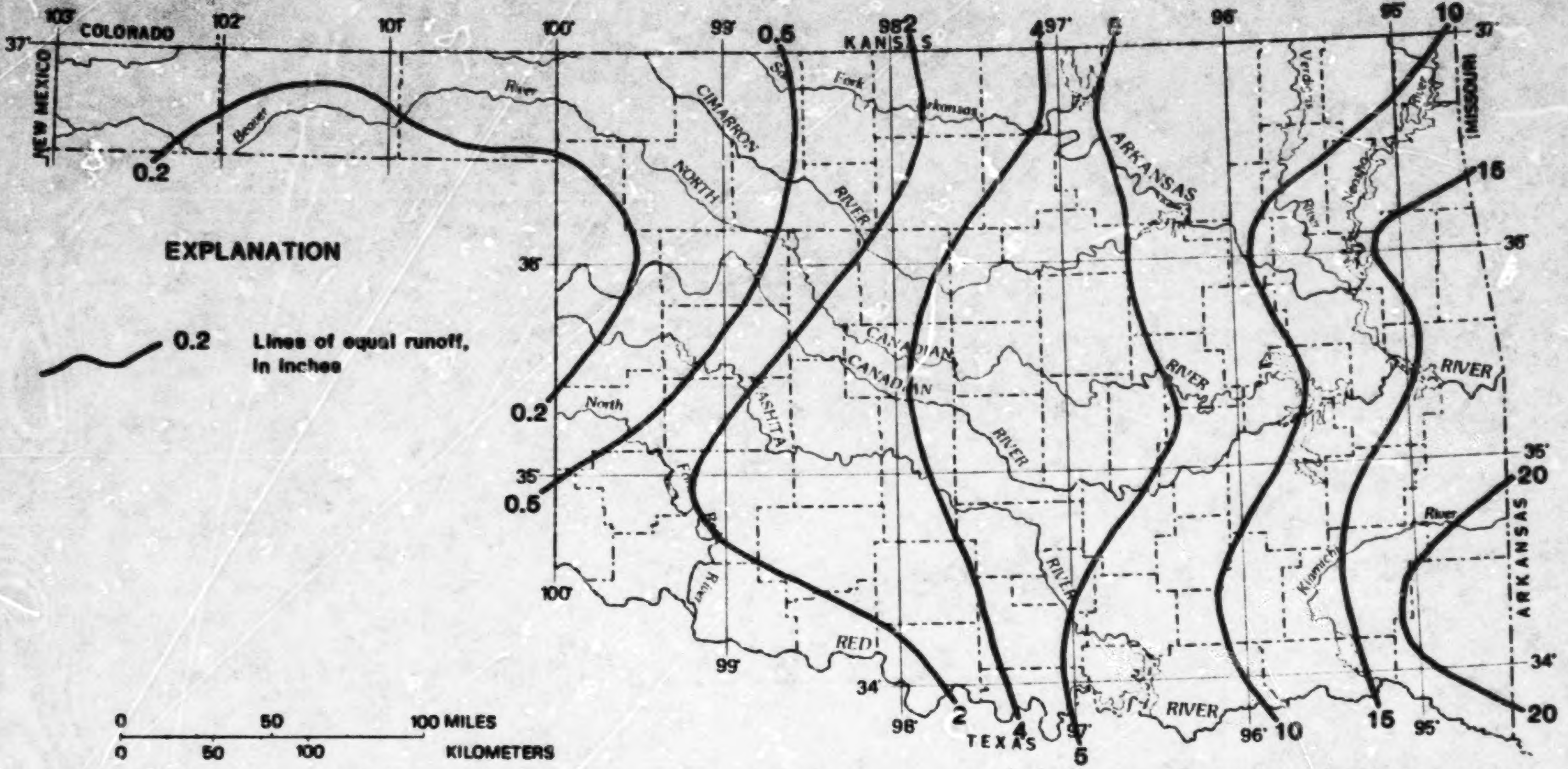

103°
COLORADO
102°
101°
100°
99°
98°
KANSAS
97°
96°
95°
37°
NEW MEXICO
MISSOURI
CIMARRON
RIVER
Salt Fork
Arkansas
ARKANSAS
Verdigris
Neosho
WOODWARD
ENID
TULSA
36°
EXPLANATION
Published as two-degree atlases
Published as county atlases
CANADIAN
North
WASHITA
CLINTON
OKLAHOMA CITY
FORT SMITH
RIVER
35°
ARDMORE
McALESTER
LAWTON
SHERMAN
TEXARKANA
RED
RIVER
ARKANSAS
34°
TEXAS
0
50
100 MILES
0
50
100
KILOMETERS

Figure 1.--Areas for which reconnaissance hydrologic studies have been made.


EXPLANATION
0.2 Lines of equal runoff, in inches
0 50 100 MILES
0 50 100 KILOMETERS
COLORADO
NEW MEXICO
KANSAS
MISSOURI
ARKANSAS
TEXAS
103°
102°
101°
100°
99°
98°
97°
96°
95°
37°
36°
35°
34°
CIMARRON
NORTH
RIVER
ARKANSAS
CANADIAN
RED
RIVER
WASHITA
Beaver
Arkansas
Kiamichi
Verdigris
Neosho
0.2
0.5
2
4
5
10
15
20

From Pettyjohn, W. A., and others, 1983,
Water Atlas of Oklahoma:
University Center for Water Research,
Oklahoma State University,
Stillwater, Oklahoma, 72 p.

Figure 2.--Average annual runoff in Oklahoma for 1970-79.

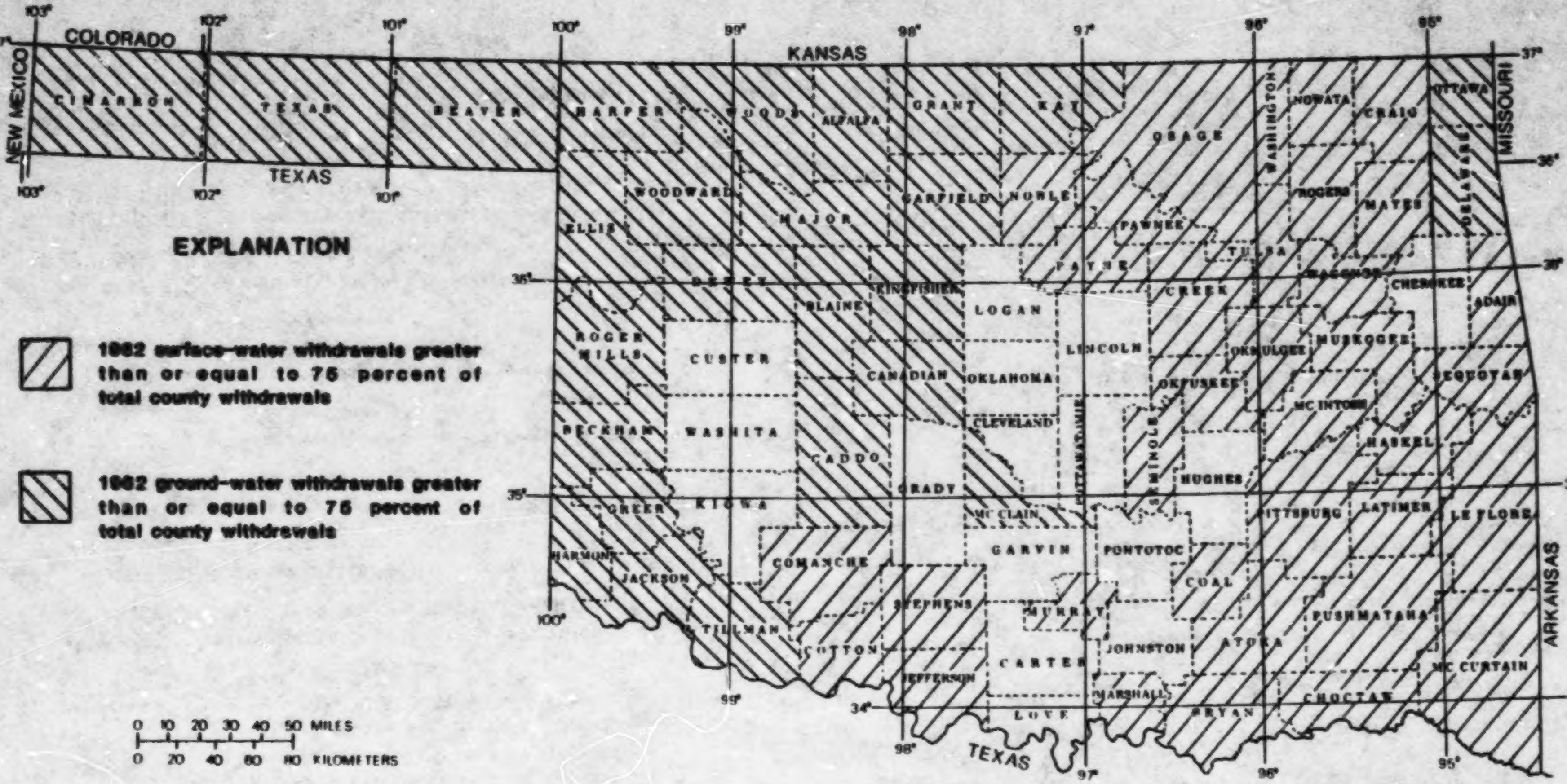
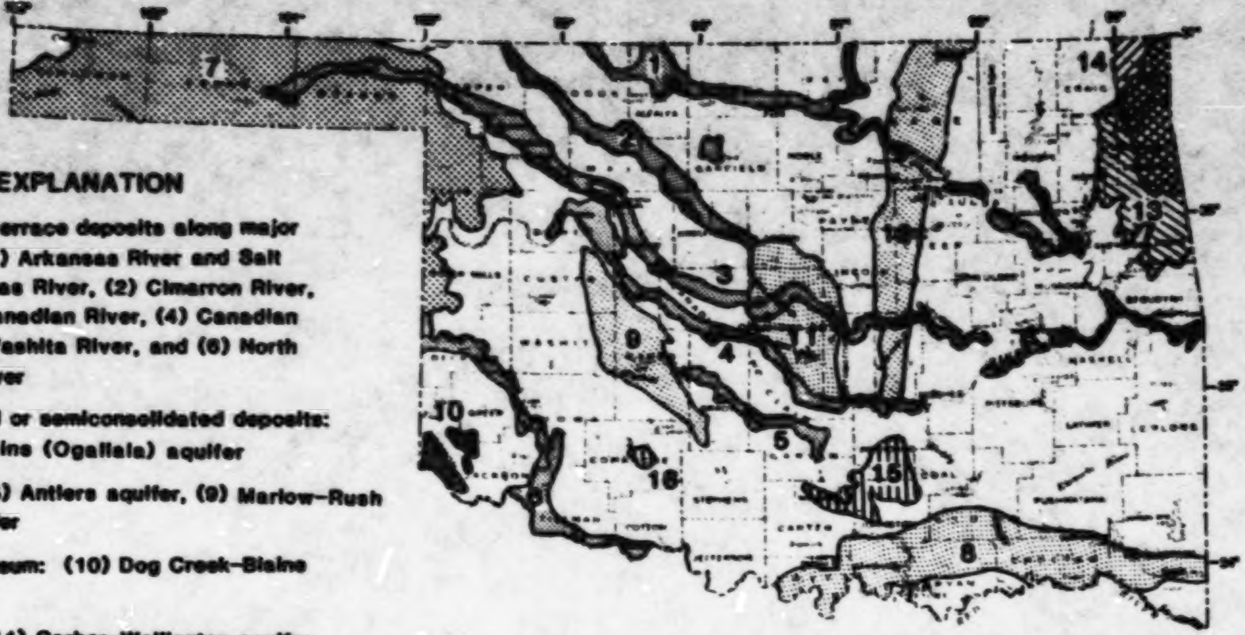

EXPLANATION
1982 surface-water withdrawals greater than or equal to 75 percent of total county withdrawals
1982 ground-water withdrawals greater than or equal to 75 percent of total county withdrawals
0 10 20 30 40 50 MILES
0 20 40 60 80 KILOMETERS
COLORADO
KANSAS
NEW MEXICO
MISSOURI
ARKANSAS
TEXAS
TEXAS
103°
102°
101°
100°
99°
98°
97°
96°
95°
37°
36°
35°
34°
CIMARRON
TEXAS
BEAVER
HARPER
WOODS
ALFALFA
GRANT
KAY
OSAGE
WASHINGTON
NOWATA
CRAIG
OTTAWA
DELAWARE
ROGERS
MAYES
WOODWARD
MAJOR
GARFIELD
NOBLE
PAWNEE
ELLIS
DEWEY
KINGFISHER
LOGAN
PAYNE
TULSA
WAGONER
CHEROKEE
ADAIR
BLAINE
CREEK
ROGER MILLS
CUSTER
CANADIAN
OKLAHOMA
LINCOLN
OKMULGEE
MUSKOGEE
SEQUOYAH
OKFUSKEE
MC INTOSH
BECKHAM
WASHITA
CLEVELAND
POTTAWATOMIE
SEMINOLE
HASKELL
CADDO
GRADY
HUGHES
GREER
KIOWA
MC CLAIN
PITTSBURG
LATIMER
LE FLORE
HARMON
JACKSON
COMANCHE
GARVIN
PONTOTOC
COAL
TILLMAN
STEPHENS
MURRAY
PUSHMATAHA
COTTON
CARTER
JOHNSTON
ATOKA
MC CURTAIN
JEFFERSON
MARSHALL
LOVE
BRYAN
CHOCTAW

Figure 3.—Counties where 1982 surface-water withdrawals and 1982 ground-water withdrawals were greater than or equal to 75 percent of total county withdrawals.



EXPLANATION

▒ Alluvium and terrace deposits along major streams: (1) Arkansas River and Salt Fork Arkansas River, (2) Cimarron River, (3) North Canadian River, (4) Canadian River, (5) Washita River, and (6) North Fork Red River

▓ Unconsolidated or semiconsolidated deposits: (7) High Plains (Ogallala) aquifer

░ Sandstone: (8) Antlers aquifer, (9) Marlow-Rush Springs aquifer

■ Cavernous gypsum: (10) Dog Creek-Blaine aquifer

░ Sandstone: (11) Garber-Wellington aquifer, (12) Vamoosa-Ada aquifer

▧ Carbonate rocks, including residual chert and limestone: (13) Keokuk-Reeds Spring (Boone) aquifer

▨ Fractured dolomite with sandy zones: (14) Roubidoux aquifer

▥ Carbonate rocks: (15) Arbuckle-Simpson aquifer, (16) Arbuckle-Timbered Hills aquifer

—— – – Aquifer boundary, dashed where approximately located

Hydrology from Marcher, 1972

0 50 100 150 MILES

0 50 100 150 KILOMETERS

Figure 4.--Location of principal aquifers in Oklahoma.

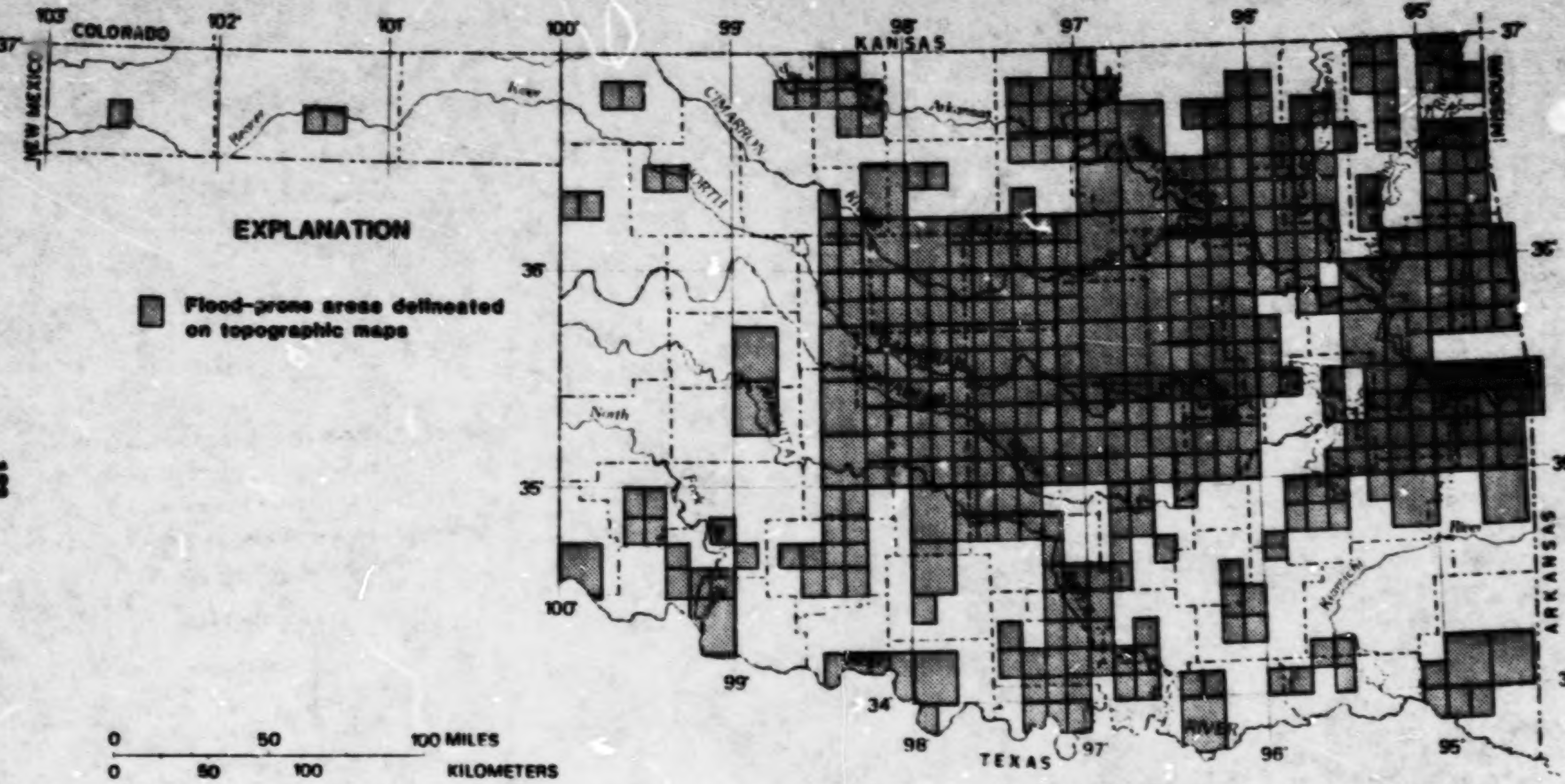
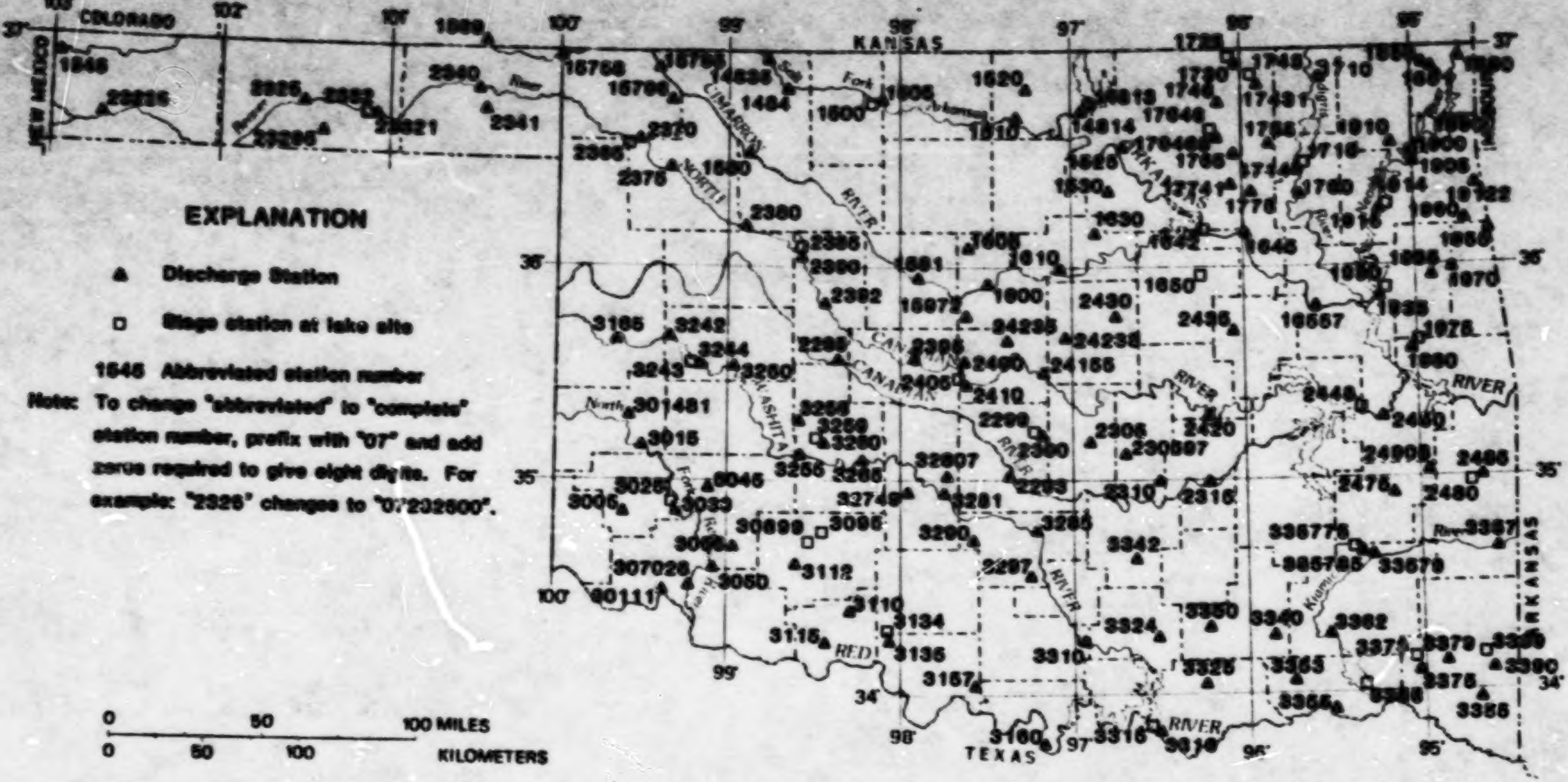

103°
COLORADO
102°
101°
100°
99°
98°
KANSAS
97°
96°
95°
37°
NEW MEXICO
MISSOURI
CIMARRON
NORTH
Arkansas
North
Fork
36°
35°
34°
100°
99°
98°
97°
96°
95°
TEXAS
RIVER
ARKANSAS
EXPLANATION
Flood-prone areas delineated on topographic maps
0
50
100 MILES
0
50
100
KILOMETERS

Figure 5.—Index map showing availability of flood-prone area maps in Oklahoma.


COLORADO
KANSAS
NEW MEXICO
TEXAS
ARKANSAS
CIMARRON RIVER
NORTH
CANADIAN
ARKANSAS
RIVER
WASHITA
RED
103°
102°
101°
100°
99°
98°
97°
96°
95°
37°
36°
35°
34°
0 50 100 MILES
0 50 100 KILOMETERS

EXPLANATION

▲ Discharge Station

□ Stage station at lake site

1545 Abbreviated station number

Note: To change "abbreviated" to "complete" station number, prefix with "07" and add zeros required to give eight digits. For example: "2325" changes to "07232500".

Figure 6.--Locations of continuous-record stream-gaging stations.

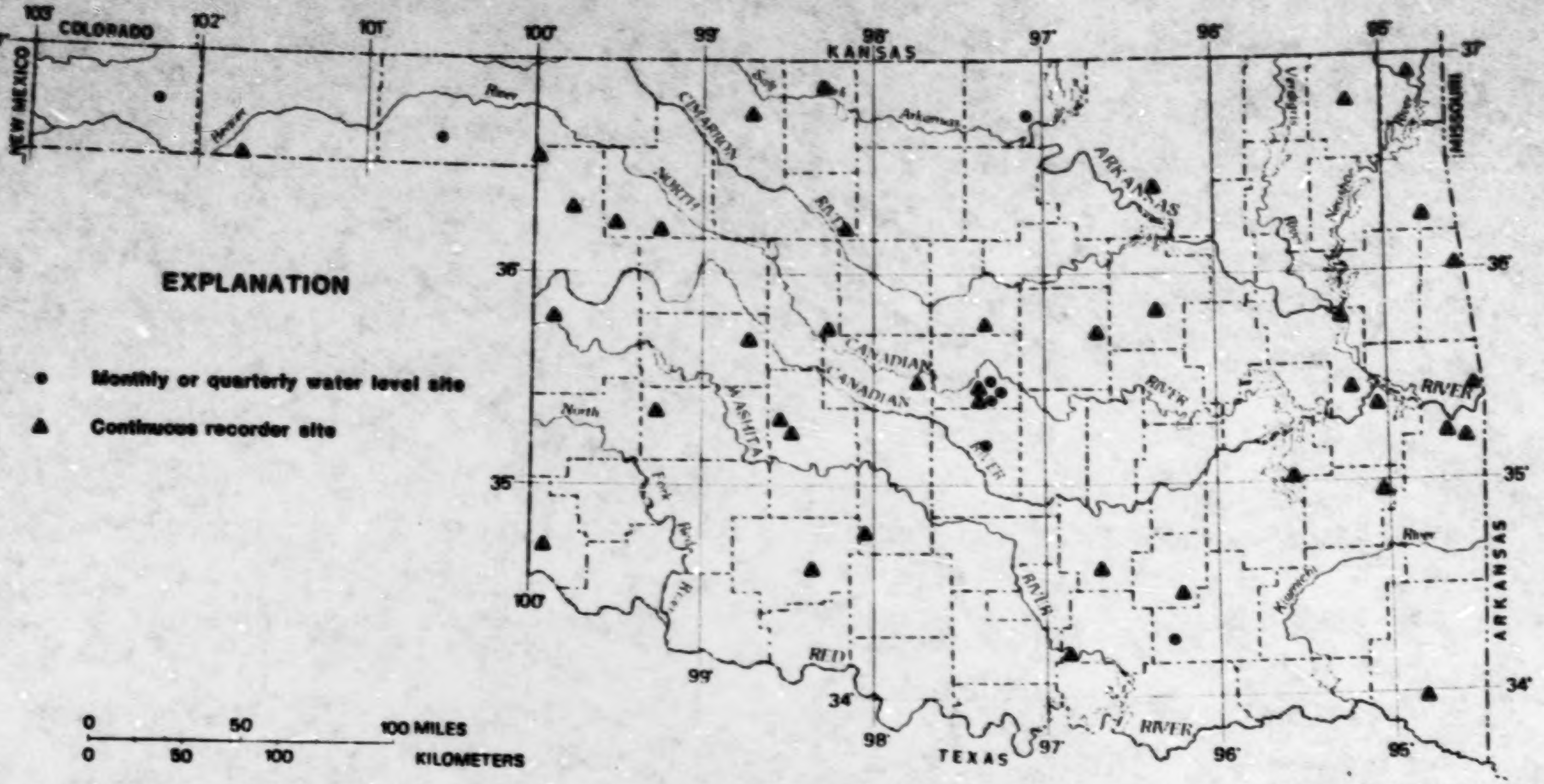

EXPLANATION
● Monthly or quarterly water level site
▲ Continuous recorder site
0 50 100 MILES
0 50 100 KILOMETERS
COLORADO
NEW MEXICO
KANSAS
MISSOURI
ARKANSAS
TEXAS
103°
102°
101°
100°
99°
98°
97°
96°
95°
37°
36°
35°
34°
Beaver
River
Salt
Fork
Arkansas
CIMARRON
RIVER
NORTH
CANADIAN
CANADIAN
RIVER
ARKANSAS
RIVER
Verdigris
River
Neosho
WASHITA
North
Fork
Red
River
RED
RIVER
Kiamichi
River

Figure 7.--Locations of water wells measured continuously, monthly, or quarterly.

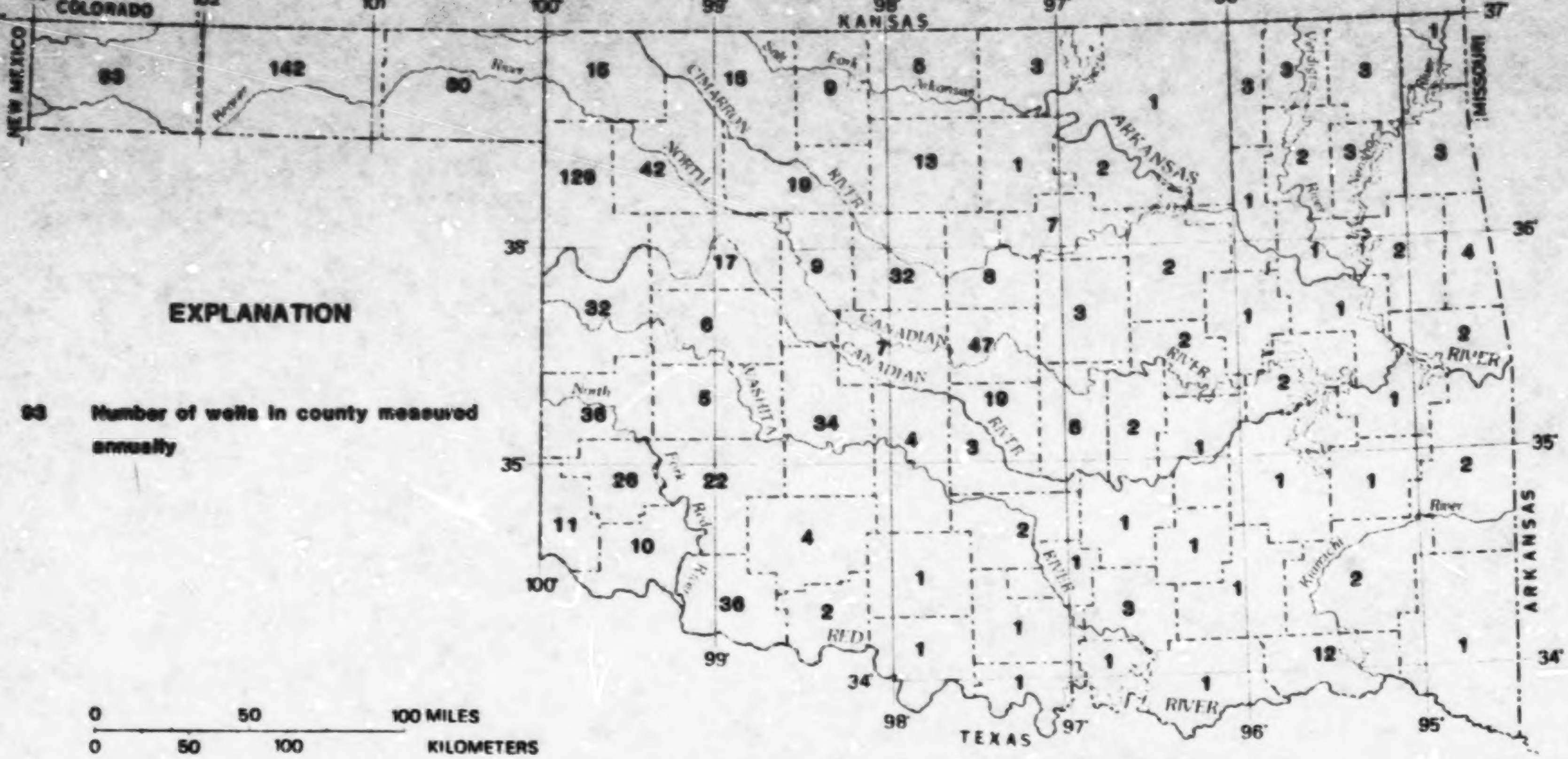

EXPLANATION
93 Number of wells in county measured annually
0 50 100 MILES
0 50 100 KILOMETERS
COLORADO
KANSAS
NEW MEXICO
MISSOURI
ARKANSAS
TEXAS
103°
102°
101°
100°
99°
98°
97°
96°
95°
37°
36°
35°
34°
CIMARRON
NORTH
RIVER
CANADIAN
ARKANSAS
WASHITA
RED
RIVER
93
142
80
16
16
9
5
3
1
3
3
3
1
126
42
19
13
1
2
1
2
3
3
7
17
9
32
8
2
1
1
2
4
32
6
7
47
3
2
1
2
36
5
34
19
6
2
1
2
1
26
22
4
3
1
1
1
2
11
10
4
2
1
1
2
36
2
1
1
3
1
1
1
1
1
1
12
1

Figure 8.--Number of water wells measured in each county during winter period.

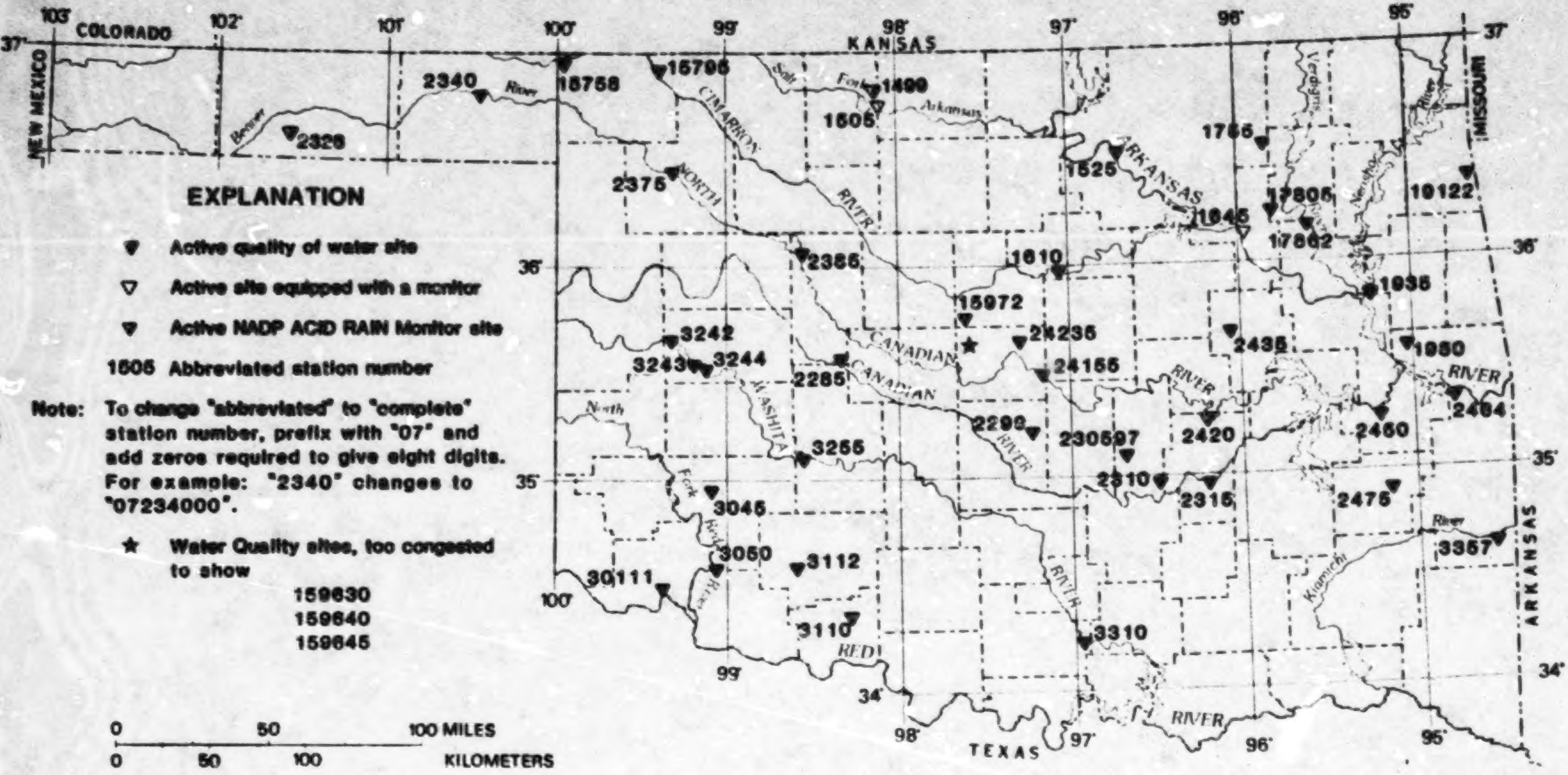

103°
102°
101°
100°
99°
98°
97°
96°
95°
37°
36°
35°
34°
COLORADO
NEW MEXICO
KANSAS
MISSOURI
ARKANSAS
TEXAS
Beaver
River
CIMARRON
RIVER
NORTH
CANADIAN
CANADIAN
RIVER
WASHITA
North
Fork
Red
River
RED
RIVER
Salt
Fork
Arkansas
ARKANSAS
Verdigris
Neosho
Kiamichi
River
2340
15758
15795
1499
1505
2325
2375
1755
1525
17805
17802
1645
19122
2385
1610
1935
15972
24235
24155
2435
1950
3242
3243
3244
2285
2464
2290
230597
2420
2450
3255
2310
2315
2475
3045
3357
3050
3112
30111
3110
3310
EXPLANATION
▼ Active quality of water site
▽ Active site equipped with a monitor
▼ Active NADP ACID RAIN Monitor site
1505 Abbreviated station number
Note: To change "abbreviated" to "complete" station number, prefix with "07" and add zeros required to give eight digits. For example: "2340" changes to "07234000".
★ Water Quality sites, too congested to show
159630
159640
159645
0
50
100 MILES
0
50
100
KILOMETERS

Figure 9.--Locations of quality-water sampling sites.

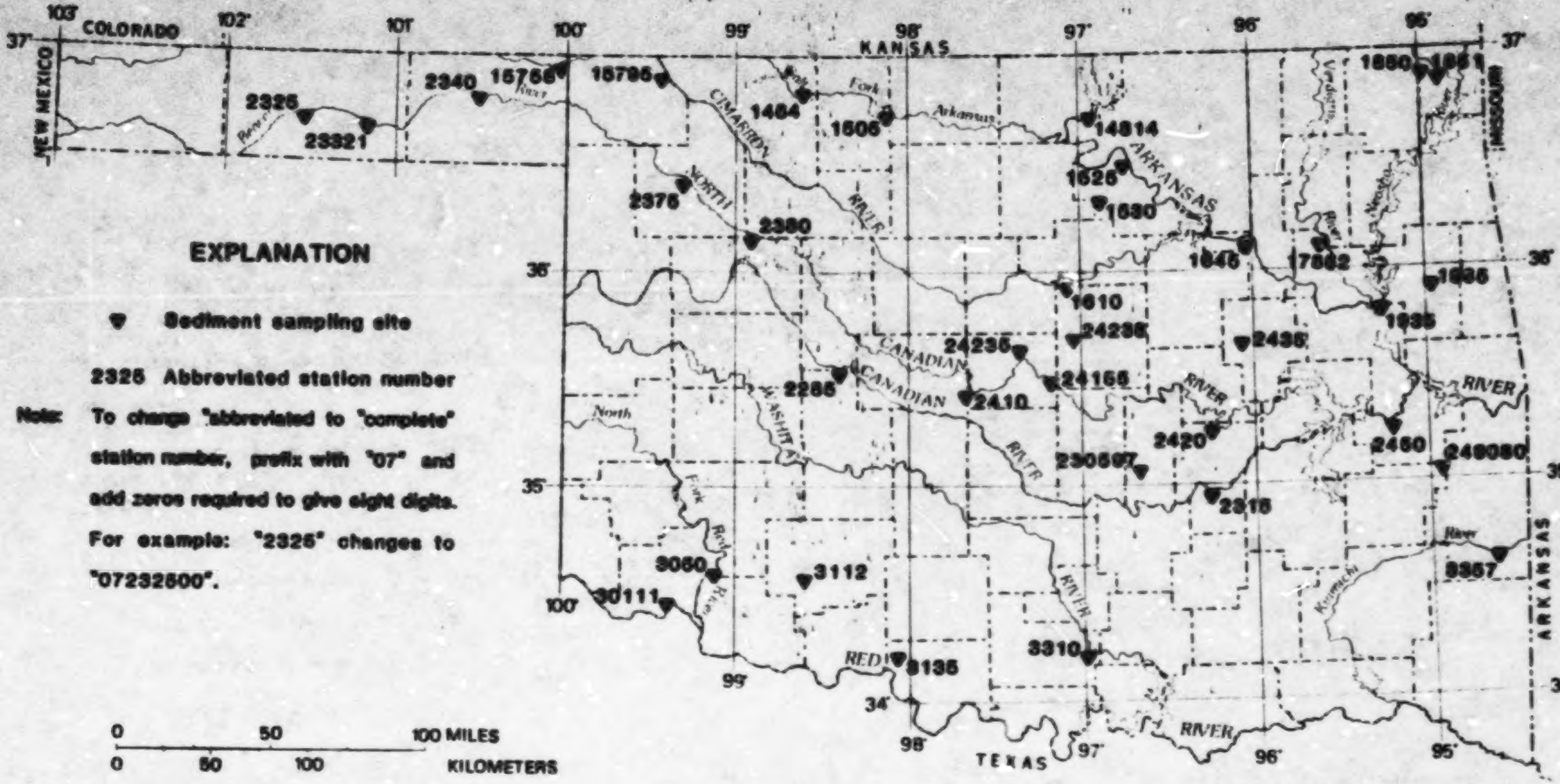

103°
COLORADO
102°
101°
100°
99°
98°
KANSAS
97°
96°
95°
37°
NEW MEXICO
MISSOURI
ARKANSAS
TEXAS
36°
35°
34°
CIMARRON
RIVER
NORTH
CANADIAN
ARKANSAS
Arkansas
Fork
Beaver
River
WASHITA
North
Fork
Red
River
RED
RIVER
Verdigris
Neosho
Kiamichi
2325
23321
2340
15756
15795
1464
1505
14614
1625
1630
1645
17862
1880
1881
1695
1935
1610
24236
24235
2436
2376
2380
2285
24165
2410
2420
2450
230507
249080
2315
3050
30111
3112
3135
3310
3357
EXPLANATION
▼ Sediment sampling site
2325 Abbreviated station number
Note: To change "abbreviated to "complete" station number, prefix with "07" and add zeros required to give eight digits. For example: "2325" changes to "07232500".
0
50
100 MILES
0
50
100
KILOMETERS

Figure 10.--Locations of sediment sampling sites.

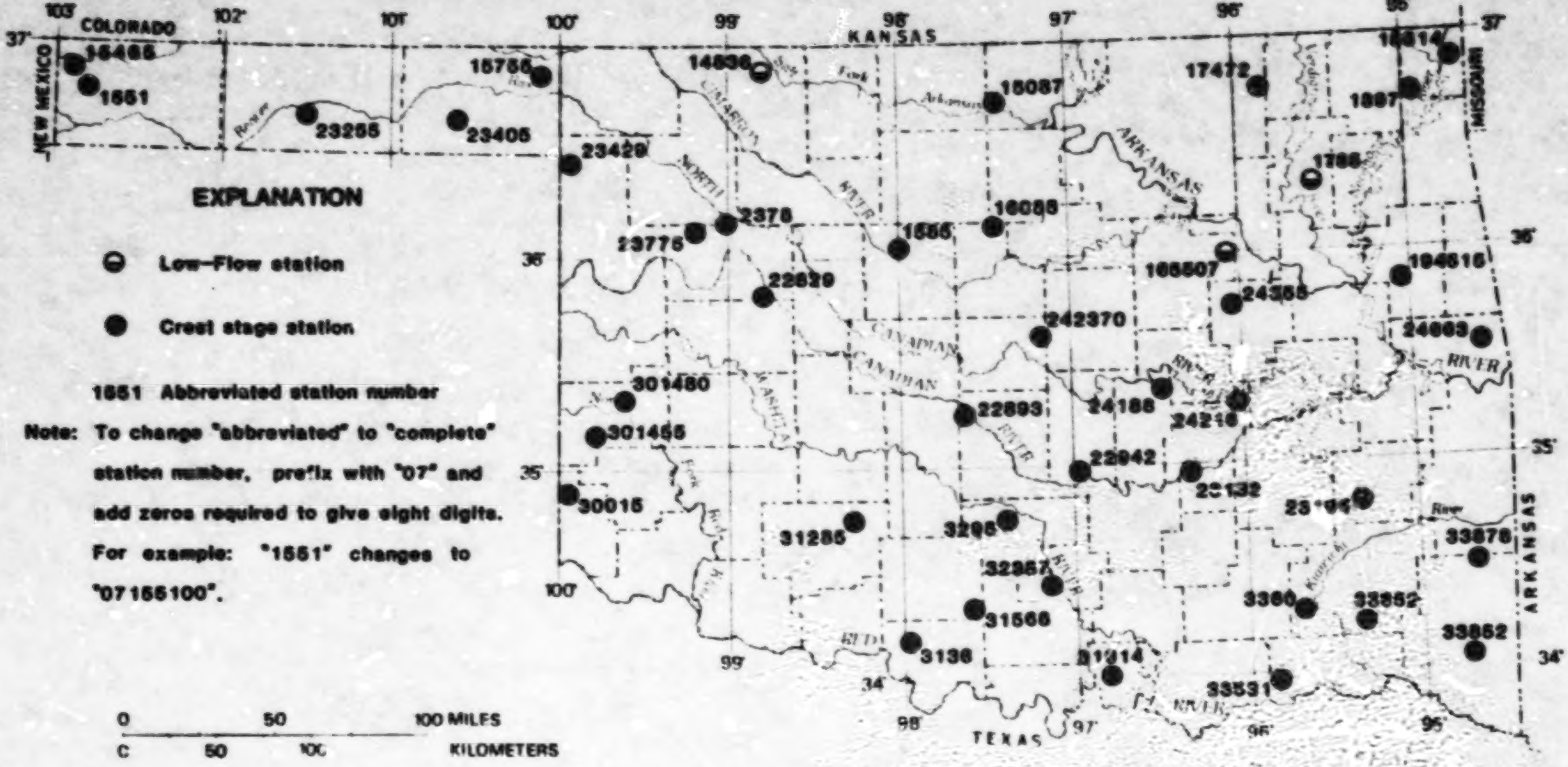

EXPLANATION
Low-Flow station
Crest stage station
1551 Abbreviated station number
Note: To change "abbreviated" to "complete" station number, prefix with "07" and add zeros required to give eight digits. For example: "1551" changes to "07155100".
0 50 100 MILES
0 50 100 KILOMETERS
COLORADO
KANSAS
NEW MEXICO
MISSOURI
ARKANSAS
TEXAS
103°
102°
101°
100°
99°
98°
97°
96°
95°
37°
36°
35°
34°
CIMARRON RIVER
NORTH CANADIAN
CANADIAN RIVER
ARKANSAS
WASHITA
RED RIVER
RIVER
16465
1551
23255
23405
15755
14836
15087
17472
16614
1887
23429
23775
2378
1555
16055
1786
165507
194615
22629
242370
24355
24663
301480
301465
22893
24155
24215
30015
22942
23132
23196
31285
3295
33878
32957
3360
33852
31565
3136
31314
33531
33852

Figure 11.—Locations of partial record stations.

CODES USED IN TABLES

Station Type

CS = Crest stage and discharge
CSR = Flood hydrograph and rainfall (SR recorder)
LF = Low flow site
PR = Partial record site
QWD = Quality of water-daily
QWH = Quality of water-hourly
QWP = Quality of water-periodic
QWMP = Quality of water analyzed by another agency, published by USGS

RES = Reservoir gage operated and published by USGS.
RESP = Reservoir gage operated by another agency and published by USGS
RESU = Reservoir gage unpublished
SED = Sediment sample collection
STGU = Stream gage only-unpublished
STR = Stream gage operated and published by USGS
STR[illegible] = Stream gage operated by another agency and published by USGS

Q.W. Parameters

B = Biological
C = Chemical
N = Nutrients
O = Organic
P = Physical
R = Radiological
S = Sediment

Stage Source

BDT = Binary decimal transmitter
HPT = Helipot
OBS = Daily observer
DAR = DARDC
RES = Resident
TMK = Telemark
DCP = Data collection platform (satellite transmitted)

(Some parameters not collected at the frequency indicated by Station Type.)

Cooperator (Coop)

A = Federal
B = U.S. Bureau of Reclamation
C = U.S. Corps of Engineers
D = Mt. Park Master Conservancy Dist.
E = Oklahoma Conservation Commission
F = Federal Emergency Management Agency
G = USGS Cooperative Matching Funds
H = Oklahoma Dept. of Transportation
I = U.S. Bureau of Land Management
J = Oklahoma Water Resources Board
K = City of Oklahoma City
L = Grand River Dam Authority
M = Central Oklahoma Master Conservancy District[1]

N = Fort Cobb Master Conservancy District[1]
O = Oklahoma Geological Survey
P = City of Tulsa[1]
Q = City of Altus[1]
R = City of Ada[1]
S = City of Sapulpa[1]
T = Lugert-Altus Irrigation District[1]
U = City of Lawton[1]
V = Foss Reservoir Master Conservancy
W = Operated by neighboring state
X = Oklahoma Gas and Electric Company[1]
Y = Cities of Edmond and Guthrie[1]
Z = City of Claremore[1]
a = Oklahoma State Health Department[1]

[1] Funds provided through the Oklahoma Water Resources Board

Aquifer Symbols

ABCKU = Arbuckle, upper
ATCK = Atoka
ALRS = Antlers
ALVM = Alluvium
BGGY = Boggy
BOON = Boone
CDHL = Cedar Hills
ELKC = Elk City

DGCK = Dog Creek
GRBR = Garber-Wellington
MCAL = McAlester
OGLL = Ogallala
RBDX = Roubidoux
RSPG = Rush Springs
VMOS = Vamoosa